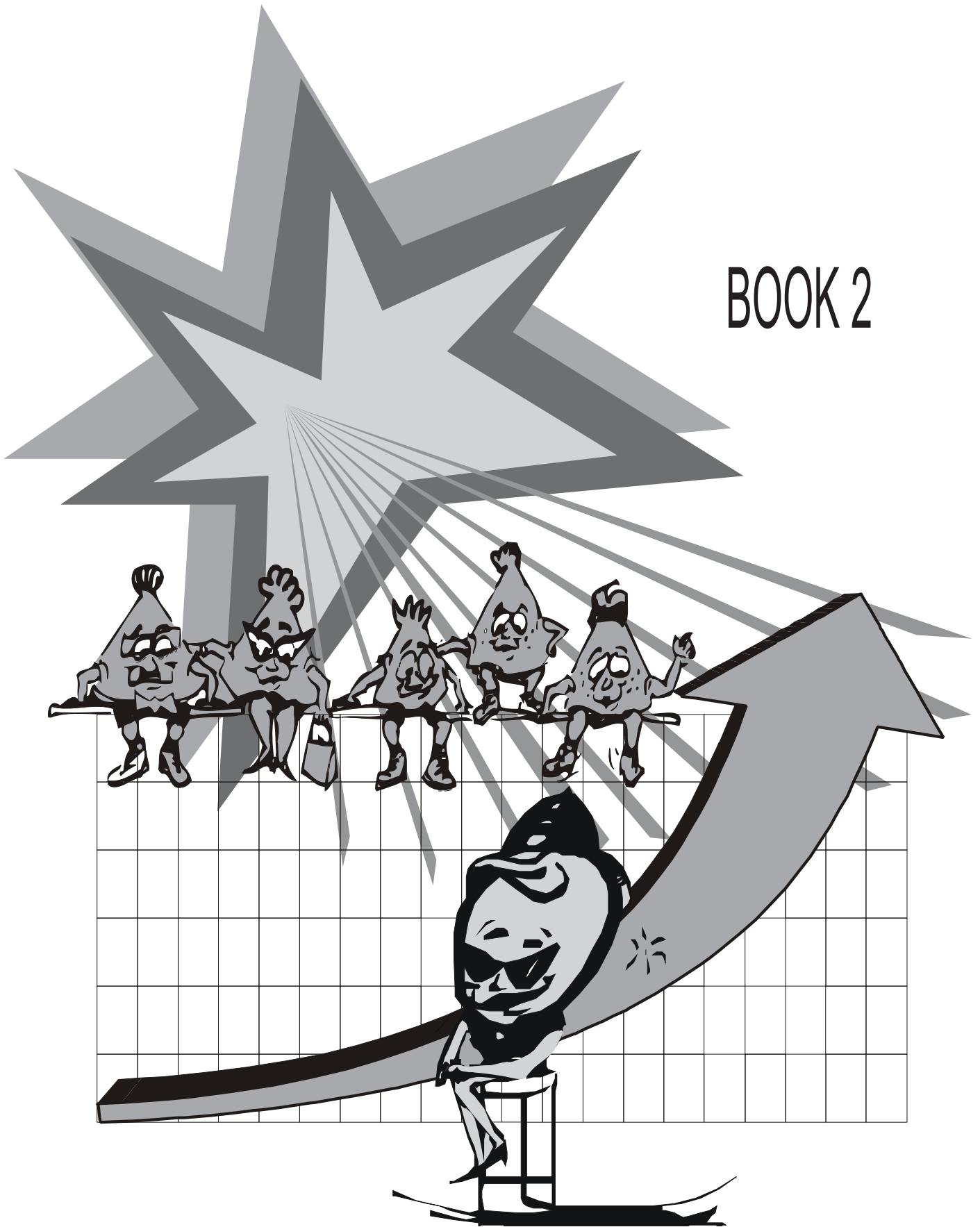


BOOK 2



Time to Succeed with Mathematics

What Is Covered In This Book?

Objective 1, Number and Algebra

- Write and solve problems involving whole, decimal numbers, percentages and fractions using a range of strategies and with an appreciation for the sensibleness of the answer.
- Order and understand placement of digits in whole numbers, decimal numbers and fractions.
- Recall basic multiplication and division facts. Recognise that numbers can be partitioned and combined using addition and or multiplication.
- Express fractions as decimals, decimals as percentages and vice versa.
- Explain the meaning of negative and positive numbers.
- Recognise relationships and calculate further using any rule formed.
- Be able to correctly use symbols, and notation to represent linear relationships and then to solve unknowns in any equations formed.
- Sketch and use graphs to illustrate relationships.
- Develop skills and confidence in the language of maths. Develop characteristics of logical and systematic thinking which can then be applied to mathematical problems and to other areas of learning.

Objective 2, Geometry and Measurement

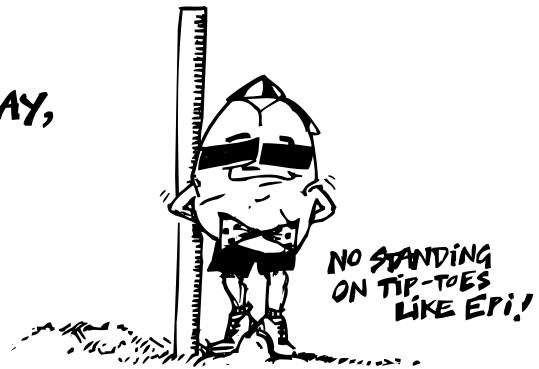
- Recognise relations and geometrical properties in two and three dimensions.
- Represent objects with drawings and models e.g. by being able to construct triangles, circles and polyhedra.
- Recognise and define plane shapes, prisms, pyramids, cones and spheres.
- Draw, interpret and specify locations using bearings and simple map scales.
- Describe and design patterns in terms of reflection, rotation, translation and enlargement.
- Measure using correct units for length, mass, volume, temperature and money. Read aspects of both calendar time and clock time.
- Use mathematical instruments and measuring devices with confidence and competence.
- Understand and calculate metric measures such as area, perimeter and volume of triangular, rectangular and circular objects.

Objective 3, Statistics

- Collect and sort data into categories.
- Represent the findings of a statistical enquiry on an appropriate graph, and identify any patterns or trends within and between the data sets.
- Interpret and present data, predict and calculate, organise and analyse.
- Evaluate the effectiveness of different displays for any sets of data.
- Plan and present a statistical experiment using appropriate graphs.
- Estimate possible outcomes for a sequence of events.
- Investigate chance situations by comparing trial results with predictions, recognising variation and using simple fractions to describe probabilities.

THE REACHING NEW HEIGHTS SURVEY!

- 1 RECORD YOUR HEIGHT AND THE HEIGHT OF A FRIEND.
- 2 DO YOUR SURVEY IN FEBRUARY, MAY, AUGUST, & NOVEMBER.
- 3 FILL IN THE CHART, AND GRAPH YOUR RESULTS!

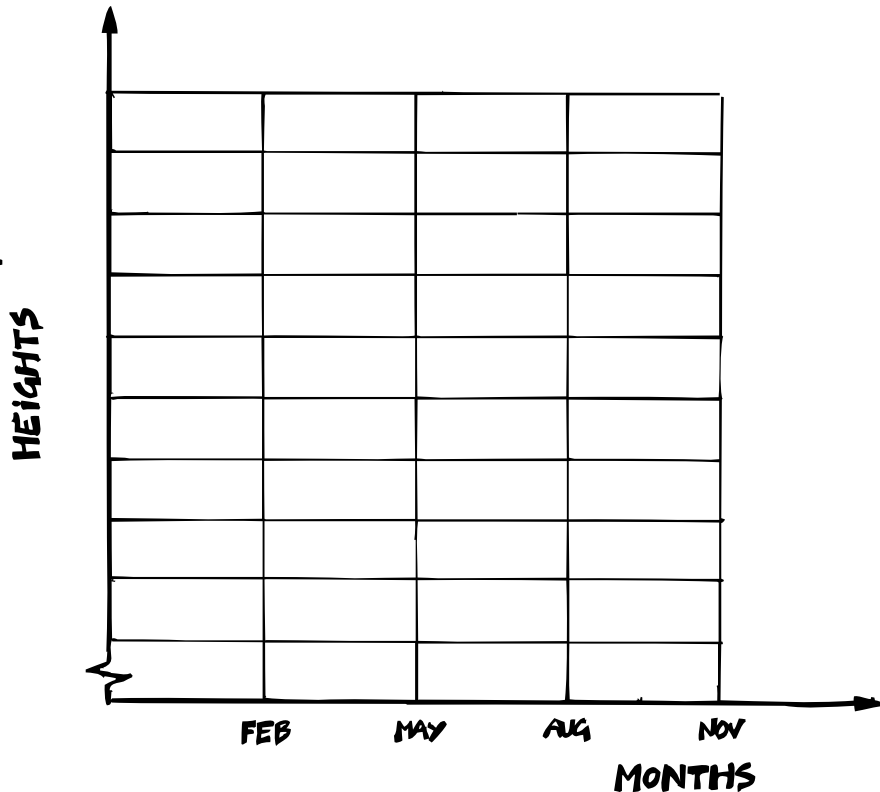


RESULTS CHART

NAME _____	
HEIGHTS -FEB _____	-FEB _____
-MAY _____	-MAY _____
-AUG _____	-AUG _____
-NOV _____	-NOV _____
TOTAL HEIGHT _____	
GROWTH _____ cm	_____ cm

HEIGHTS GRAPH

PLOT THE LINE OF YOUR CHANGE IN HEIGHT. USE A DIFFERENT COLOUR FOR EACH PERSON!



-TRY MEASURING YOUR TEACHER. DO THEY GROW OR SHRINK?

— ADDITION IS EASY
WHEN YOU KNOW HOW
AND YOU KNOW HOW!
M.C. ADDITION



$5+2=$	$8+1=$	$1+3=$	$2+6=$	$2+2=$
$1+2=$	$0+4=$	$6+3=$	$0+5=$	$4+0=$
$5+5=$	$4+1=$	$1+7=$	$3+2=$	$9+2=$
$1+6=$	$1+1=$	$2+9=$	$6+6=$	$2+8=$
$0+2=$	$8+8=$	$2+7=$	$7+2=$	$4+8=$
$4+2=$	$7+1=$	$7+7=$	$5+6=$	$0+1=$
$4+6=$	$3+4=$	$0+9=$	$2+0=$	$3+6=$

(DON'T FORGET TO CORRECT YOUR MISTAKES)

$11+4=$	$16+8=$	$11+9=$	$19+19=$	$25+14=$
$14+1=$	$11+8=$	$14+7=$	$10+13=$	$25+18=$
$13+8=$	$19+4=$	$19+3=$	$14+13=$	$23+17=$
$13+4=$	$11+7=$	$17+9=$	$13+17=$	$38+18=$
$12+8=$	$12+3=$	$19+7=$	$18+13=$	$34+15=$
$16+1=$	$16+7=$	$15+3=$	$17+19=$	$36+25=$
$17+4=$	$18+3=$	$17+6=$	$15+13=$	$29+39=$

NOW SHADE IN ANY SQUARES WITH WRONG ANSWERS!

DID YOU MAKE AN ERROR?!

+	5	8	9	3	2	4	11	6	7	10	5	9
2	7	10	11	5	4	6	13	8	9	12	7	11
4	6	10	15	7	6	8	15	10	11	14	9	13
9	10	17	18	12	10	13	14	15	16	19	14	18
6	2	14	15	5	8	9	17	12	13	16	11	15
2	4	9	11	4	4	5	13	8	9	12	7	15
4	11	12	13	6	6	10	15	10	11	14	6	13
6	15	14	15	4	8	10	18	24	19	16	9	15
3	10	24	7	6	5	7	6	9	5	13	12	12
7	12	15	16	10	9	11	12	13	20	17	16	16
1	6	9	10	4	3	5	14	3	5	11	6	10

M.C. ADDITION IS ONE GUY WHO KNOWS THE BENEFIT OF ARITHMETIC!

MORE ADDITION - SUM PEOPLE ARE WONDERFUL!

2	8	6	5	2	5
8	8	5	2	6	6
4	1	0	6	6	6
5	2	5	6	5	9
<hr/>					
51	48	84	26	50	85
42	52	48	60	25	99
24	88	16	25	66	77
54	64	93	42	83	33
<hr/>					

COMPLETE THE TABLES

+	12	20	27	31	36	49
29						
14						
35						

+	52	48	39	32	24	17
27						
51						
40						

SHADE IN THE MISTAKES TO MAKE AN EVERYDAY ITEM!

+	48	54	83	27	47	36	65	56	72	45
0	49	53	83	37	47	26	65	57	82	25
6	43	60	89	32	53	41	71	60	78	50
5	22	59	88	33	52	40	70	51	78	49
1	50	53	84	30	38	36	66	58	73	46
2	50	56	80	28	50	39	66	68	76	47
8	56	62	88	37	58	28	70	64	81	53
9	57	63	89	18	40	44	62	66	80	54
4	52	58	83	32	45	41	59	60	76	49



CALCULATOR ADDITION

-CLAUDIA CALCULATOR WILL HELP YOU WITH THIS PAGE!



THE FIRST SUMS!

$$\begin{array}{r} 246 \\ +217 \\ \hline \end{array}$$

$$\begin{array}{r} 380 \\ +106 \\ \hline \end{array}$$

$$\begin{array}{r} 907 \\ +157 \\ \hline \end{array}$$

$$\begin{array}{r} 591 \\ +288 \\ \hline \end{array}$$

$$\begin{array}{r} 816 \\ +346 \\ \hline \end{array}$$

$$\begin{array}{r} 4123 \\ +2915 \\ \hline \end{array}$$

$$\begin{array}{r} 6328 \\ +4980 \\ \hline \end{array}$$

$$\begin{array}{r} 2479 \\ +756 \\ \hline \end{array}$$

$$\begin{array}{r} 8060 \\ +987 \\ \hline \end{array}$$

$$\begin{array}{r} 7589 \\ +4297 \\ \hline \end{array}$$

COMPLETE THESE TABLES

+	119	126	232	273	317
148					
672					

+	101	143	211	215	216
419					
564					

MORE SUMS TO SOLVE!

$$\begin{array}{r} 3456 \\ 4651 \\ +1948 \\ \hline \end{array}$$

$$\begin{array}{r} 1673 \\ 5836 \\ +4883 \\ \hline \end{array}$$

$$\begin{array}{r} 3124 \\ 7519 \\ +2196 \\ \hline \end{array}$$

$$\begin{array}{r} 1543 \\ 3110 \\ +5490 \\ \hline \end{array}$$

$$\begin{array}{r} 2165 \\ 1972 \\ +2788 \\ \hline \end{array}$$

SPEED TEST

SEE IF YOU CAN GET ALL THESE CORRECT IN 10 MINUTES!

$$\begin{array}{r} 5 \\ 8 \\ 2 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ 58 \\ 46 \\ +24 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ 99 \\ 98 \\ +85 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 55 \\ 76 \\ +90 \\ \hline \end{array}$$

$$\begin{array}{r} 392 \\ 973 \\ +846 \\ \hline \end{array}$$

$$\begin{array}{r} 695 \\ 128 \\ +834 \\ \hline \end{array}$$

$$\begin{array}{r} 893 \\ 565 \\ \hline \end{array}$$

$$\begin{array}{r} 597 \\ 288 \\ \hline \end{array}$$

$$\begin{array}{r} 8683 \\ 4187 \\ \hline \end{array}$$

$$\begin{array}{r} 685 \\ 196 \\ \hline \end{array}$$

$$\begin{array}{r} 340 \\ 195 \\ 708 \\ \hline \end{array}$$

$$\begin{array}{r} 237 \\ 185 \\ 714 \\ \hline \end{array}$$

MY SCORE IS _____

CORRECT ANY MISTAKES

- D.J. ELAINE EQUAL'S SIMPLY SENSATIONAL SUBTRACTION!



$36 - 14 =$

$29 - 16 =$

$38 - 17 =$

$47 - 23 =$

$84 - 34 =$

$59 - 35 =$

$$\begin{array}{r} 488 \\ -236 \\ \hline \end{array}$$

$$\begin{array}{r} 594 \\ -562 \\ \hline \end{array}$$

$96 - 44 =$

$86 - 32 =$

$79 - 56 =$

$93 - 40 =$

$88 - 35 =$

$79 - 24 =$

$$\begin{array}{r} 529 \\ -307 \\ \hline \end{array}$$

$$\begin{array}{r} 978 \\ -547 \\ \hline \end{array}$$

$38 - 16 =$

$72 - 40 =$

$87 - 35 =$

$46 - 15 =$

$65 - 32 =$

$84 - 71 =$

$$\begin{array}{r} 650 \\ -420 \\ \hline \end{array}$$

$$\begin{array}{r} 672 \\ -341 \\ \hline \end{array}$$

$39 - 26 =$

$75 - 63 =$

$99 - 38 =$

$74 - 30 =$

$94 - 62 =$

$79 - 27 =$

$$\begin{array}{r} 789 \\ -573 \\ \hline \end{array}$$

$$\begin{array}{r} 536 \\ -224 \\ \hline \end{array}$$

REPLACE EACH ANSWER WITH ITS LETTER IN THE
CODED MESSAGE!

$$\begin{array}{r} \boxed{A} \ 896 \\ -222 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{I} \ 796 \\ -284 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{H} \ 996 \\ -84 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{T} \ 798 \\ -476 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{S} \ 469 \\ -154 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{R} \ 465 \\ -333 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{V} \ 797 \\ -402 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{P} \ 867 \\ -253 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{E} \ 398 \\ -157 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{L} \ 556 \\ -341 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{G} \ 887 \\ -350 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{N} \ 326 \\ -105 \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{O} \ 799 \\ -408 \\ \hline \end{array}$$

D.J. ELAINE EQUAL: "DOCTOR, I THINK I HAVE INSOMNIA"
DOCTOR: "

$\overline{322} \ \overline{912} \ \overline{674} \ \overline{322} \ \overline{315} \ \overline{221} \ \overline{391} \ \overline{322} \ \overline{912} \ \overline{512} \ \overline{221} \ \overline{537}$

$\overline{322} \ \overline{391} \ \overline{215} \ \overline{391} \ \overline{315} \ \overline{241} \ \overline{315} \ \overline{215} \ \overline{241} \ \overline{241} \ \overline{614} \ \overline{391} \ \overline{395} \ \overline{241} \ \overline{132}$!"

- FRESH SUBTRACTION FROM ELAINE!

TAKEAWAYS TASTE BEST!

$\begin{array}{r} 43 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 33 \\ -18 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ -46 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -37 \\ \hline \end{array}$	$\begin{array}{r} 92 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ -56 \\ \hline \end{array}$
$\begin{array}{r} 82 \\ -58 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ -37 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ -49 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ -19 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ -22 \\ \hline \end{array}$
$\begin{array}{r} 32 \\ -14 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -38 \\ \hline \end{array}$	$\begin{array}{r} 92 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ -26 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ -48 \\ \hline \end{array}$
$\begin{array}{r} 74 \\ -38 \\ \hline \end{array}$	$\begin{array}{r} 72 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 81 \\ -65 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ -44 \\ \hline \end{array}$	$\begin{array}{r} 81 \\ -27 \\ \hline \end{array}$

- NOW TRY THIS PUZZLE!

"WHAT DID ONE TAILPIPE SAY TO THE OTHER?"



D.J. ELAINE
EVAL

$\begin{array}{r} \boxed{R} \ 34 \\ -16 \\ \hline \end{array}$	$\begin{array}{r} \boxed{I} \ 82 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} \boxed{S} \ 47 \\ -39 \\ \hline \end{array}$	$\begin{array}{r} \boxed{L} \ 88 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} \boxed{Y} \ 72 \\ -25 \\ \hline \end{array}$
$\begin{array}{r} \boxed{H} \ 55 \\ -48 \\ \hline \end{array}$	$\begin{array}{r} \boxed{U} \ 70 \\ -47 \\ \hline \end{array}$	$\begin{array}{r} \boxed{E} \ 81 \\ -14 \\ \hline \end{array}$	$\begin{array}{r} \boxed{M} \ 37 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} \boxed{O} \ 45 \\ -18 \\ \hline \end{array}$
$\begin{array}{r} \boxed{D} \ 95 \\ -76 \\ \hline \end{array}$	$\begin{array}{r} \boxed{B} \ 66 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} \boxed{T} \ 74 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} \boxed{X} \ 67 \\ -28 \\ \hline \end{array}$	$\begin{array}{r} \boxed{A} \ 80 \\ -8 \\ \hline \end{array}$



M.G.
ADDITION

37 27 47 55 72 28 18 67 72 59 59 47
67 39 7 72 23 8 65 67 19 !"

CALCULATOR SUBTRACTION

— USE MISS CLAUDIA CALCULATOR TO HELP YOU SOLVE THE PROBLEMS BELOW!



START SUBTRACTING!

$$\begin{array}{r} 356 \\ -267 \\ \hline \end{array}$$

$$\begin{array}{r} 480 \\ -195 \\ \hline \end{array}$$

$$\begin{array}{r} 917 \\ -357 \\ \hline \end{array}$$

$$\begin{array}{r} 592 \\ -198 \\ \hline \end{array}$$

$$\begin{array}{r} 8463 \\ -3582 \\ \hline \end{array}$$

$$\begin{array}{r} 4123 \\ -2035 \\ \hline \end{array}$$

$$\begin{array}{r} 6238 \\ -3159 \\ \hline \end{array}$$

$$\begin{array}{r} 5305 \\ -4276 \\ \hline \end{array}$$

$$\begin{array}{r} 3918 \\ -1838 \\ \hline \end{array}$$

$$\begin{array}{r} 2345 \\ -587 \\ \hline \end{array}$$

$$\begin{array}{r} 10000 \\ -4567 \\ \hline \end{array}$$

$$\begin{array}{r} 20000 \\ -8765 \\ \hline \end{array}$$

$$\begin{array}{r} 10000 \\ -9312 \\ \hline \end{array}$$

$$\begin{array}{r} 20000 \\ -11843 \\ \hline \end{array}$$

$$\begin{array}{r} 2000 \\ -1635 \\ \hline \end{array}$$

$$\begin{array}{r} 12345 \\ -1234 \\ \hline \end{array}$$

$$\begin{array}{r} 24321 \\ -4235 \\ \hline \end{array}$$

$$\begin{array}{r} 43860 \\ -10872 \\ \hline \end{array}$$

$$\begin{array}{r} 10101010 \\ -10010101 \\ \hline \end{array}$$

SPEED TEST

SEE IF YOU CAN GET ALL THESE CORRECT IN 10 MINUTES!

$$\begin{array}{r} 86 \\ -68 \\ \hline \end{array}$$

$$\begin{array}{r} 401 \\ -107 \\ \hline \end{array}$$

$$\begin{array}{r} 685 \\ -219 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ -25 \\ \hline \end{array}$$

$$\begin{array}{r} 594 \\ -387 \\ \hline \end{array}$$

$$\begin{array}{r} 893 \\ -656 \\ \hline \end{array}$$

$$\begin{array}{r} 6832 \\ -769 \\ \hline \end{array}$$

$$\begin{array}{r} 5476 \\ -2388 \\ \hline \end{array}$$

$$\begin{array}{r} 2469 \\ -875 \\ \hline \end{array}$$

$$\begin{array}{r} 4616 \\ -3727 \\ \hline \end{array}$$

$$2547 - 365 = \underline{\hspace{2cm}}$$

$$9015 - 876 = \underline{\hspace{2cm}}$$

MY SCORE IS

CORRECT ANY MISTAKES!

- P.J. ELAINE EQUAL'S

"NOVEL-NOODLUM"



$7+8=$

$5+9=$

$12+6=$

$14+7=$

$11+18=$

$13+19=$

$17+16=$

$20+17=$

$$\begin{array}{r} 6 \\ 5 \\ 5 \\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 0 \\ 2 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 7 \\ 6 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 11 \\ 12 \\ 13 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 21 \\ 22 \\ 23 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ 60 \\ 52 \\ 28 \\ \hline \end{array}$$

$$\begin{array}{r} 79 \\ 58 \\ 99 \\ 88 \\ \hline \end{array}$$

$$\begin{array}{r} 127 \\ +193 \\ \hline \end{array}$$

$$\begin{array}{r} 440 \\ +295 \\ \hline \end{array}$$

$$\begin{array}{r} 307 \\ +199 \\ \hline \end{array}$$

$$\begin{array}{r} 4306 \\ +2541 \\ \hline \end{array}$$

$$\begin{array}{r} 7885 \\ +2036 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ -15 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ -21 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ -41 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ -16 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ -28 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ -44 \\ \hline \end{array}$$

$$\begin{array}{r} 828 \\ -516 \\ \hline \end{array}$$

$$\begin{array}{r} 689 \\ -357 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ -29 \\ \hline \end{array}$$

$$\begin{array}{r} 740 \\ -180 \\ \hline \end{array}$$

$$\begin{array}{r} 555 \\ -372 \\ \hline \end{array}$$

$$\begin{array}{r} 846 \\ -358 \\ \hline \end{array}$$

$$\begin{array}{r} 927 \\ -539 \\ \hline \end{array}$$

$$\begin{array}{r} 450 \\ -186 \\ \hline \end{array}$$

$$\begin{array}{r} 321 \\ -195 \\ \hline \end{array}$$

$$\begin{array}{r} 4396 \\ -1859 \\ \hline \end{array}$$



WHERE DO BABY APES SLEEP?



$$\begin{array}{r} 45 \\ +38 \\ \hline T \end{array}$$

$$\begin{array}{r} 36 \\ +18 \\ \hline C \end{array}$$

$$\begin{array}{r} 67 \\ +17 \\ \hline R \end{array}$$

$$\begin{array}{r} 39 \\ +52 \\ \hline A \end{array}$$

$$\begin{array}{r} 38 \\ -12 \\ \hline I \end{array}$$

$$\begin{array}{r} 139 \\ -111 \\ \hline O \end{array}$$

$$\begin{array}{r} 76 \\ -19 \\ \hline P \end{array}$$

$$\begin{array}{r} 963 \\ -888 \\ \hline N \end{array}$$

$$\begin{array}{r} 15 \\ 19 \\ 21 \\ +34 \\ \hline S \end{array}$$

$$\hline 26$$

$$\hline 75$$

$$\hline 91$$

$$\hline 57$$

$$\hline 84$$

$$\hline 26$$

$$\hline 54$$

$$\hline 28$$

$$\hline 83$$

$$\hline 89$$

MAXWELL THE MIGHTY MULTIPLYING MOUSE RECKONS... "MULTIPLICATION IS THE KEY TO SUCCESS!"

... AND HE'S RIGHT!



- START BY SOLVING THESE PROBLEMS.

- | | | | |
|----------------|----------------|----------------|----------------|
| $3 \times 4 =$ | $6 \times 7 =$ | $4 \times 9 =$ | $8 \times 8 =$ |
| $2 \times 8 =$ | $8 \times 9 =$ | $7 \times 5 =$ | $6 \times 9 =$ |
| $5 \times 6 =$ | $9 \times 2 =$ | $4 \times 4 =$ | $1 \times 4 =$ |
| $4 \times 6 =$ | $1 \times 1 =$ | $6 \times 6 =$ | $3 \times 2 =$ |
| $5 \times 5 =$ | $2 \times 2 =$ | $4 \times 0 =$ | $3 \times 3 =$ |
| $9 \times 1 =$ | $3 \times 8 =$ | $6 \times 1 =$ | $9 \times 9 =$ |
| $3 \times 9 =$ | $5 \times 1 =$ | $4 \times 8 =$ | $6 \times 5 =$ |
| $4 \times 7 =$ | $7 \times 2 =$ | $7 \times 9 =$ | $0 \times 3 =$ |

- NOW COMPLETE THE MULTIPLE TABLES!

$\times 8$	8	16									
------------	---	----	--	--	--	--	--	--	--	--	--

$\times 10$	10										
-------------	----	--	--	--	--	--	--	--	--	--	--

$\times 11$											
-------------	--	--	--	--	--	--	--	--	--	--	--

SHADE IN ALL THE MISTAKES!
WHAT DO YOU GET?

X	4	6	2	9	5	8	1	7	0	3
2	6	12	9	18	12	10	2	15	0	9
6	20	36	18	54	35	48	6	44	0	22
8	30	50	16	72	35	65	8	65	8	21
4	24	24	6	36	9	32	4	28	4	12
1	5	6	5	9	8	10	1	7	1	3
3	12	18	6	27	15	24	3	21	0	9
0	4	6	2	0	0	0	0	0	0	0
5	9	30	7	40	20	45	10	45	5	10
7	30	11	15	63	35	56	10	49	7	20
9	36	54	18	81	45	72	11	63	9	30



... AND NOW MAX IS OFF TO EXHIBIT SOME OF HIS EXCITING PRODUCTS!

YES, MAXWELL JUST GETS SO EXCITED AT THE PROSPECT OF MORE MULTIPLYING!!

MAXWELL, THE MIGHTY MULTIPLYING MOUSE, MOVES MAJESTICALLY TO M.C. ADDITION'S MULTIPLYING MELODIES!



$10 \times 10 = \underline{\hspace{2cm}}$ $10 \times 10 \times 10 = \underline{\hspace{2cm}}$ $100 \times 10 = \underline{\hspace{2cm}}$
 $10 \times 100 = \underline{\hspace{2cm}}$ $10 \times 10 \times 10 \times 10 = \underline{\hspace{2cm}}$ $10 \times 1000 = \underline{\hspace{2cm}}$
 $100 \times 100 = \underline{\hspace{2cm}}$ $1000 \times 100 = \underline{\hspace{2cm}}$ $1000 \times 1000 = \underline{\hspace{2cm}}$

PRODUCT	THINK	ANSWER
---------	-------	--------

$70 \times 40 \longrightarrow (7 \times 4) \times (10 \times 10) \longrightarrow \underline{\hspace{2cm}}$
 $60 \times 80 \longrightarrow (_ \times _) \times (10 \times 10) \longrightarrow \underline{\hspace{2cm}}$
 $80 \times 90 \longrightarrow (_ \times _) \times (_ \times _) \longrightarrow \underline{\hspace{2cm}}$

- NOW USE THE METHOD ABOVE \uparrow TO FIND THE ANSWERS BELOW! \downarrow

60×70 _____	90×30 _____
20×80 _____	70×80 _____
50×90 _____	20×90 _____
80×30 _____	60×30 _____
40×60 _____	50×60 _____
30×50 _____	70×20 _____
60×60 _____	40×40 _____

PRODUCT	THINK	ANSWER
---------	-------	--------

$20 \times 600 \longrightarrow (2 \times 6) \times (10 \times 100) \longrightarrow \underline{\hspace{2cm}}$
 $30 \times 400 \longrightarrow (3 \times 4) \times (_ \times _) \longrightarrow \underline{\hspace{2cm}}$
 $50 \times 8000 \longrightarrow (_ \times _) \times (_ \times _) \longrightarrow \underline{\hspace{2cm}}$

WRITE ANSWERS ONLY FOR THE PROBLEMS BELOW

$30 \times 500 =$ _____	$70 \times 800 =$ _____	$50 \times 8000 =$ _____
$70 \times 300 =$ _____	$80 \times 500 =$ _____	$90 \times 4000 =$ _____
$80 \times 900 =$ _____	$40 \times 600 =$ _____	$400 \times 400 =$ _____
$70 \times 400 =$ _____	$80 \times 300 =$ _____	$700 \times 600 =$ _____
$30 \times 700 =$ _____	$50 \times 800 =$ _____	$600 \times 4000 =$ _____
$40 \times 200 =$ _____	$500 \times 200 =$ _____	$900 \times 9000 =$ _____
$90 \times 200 =$ _____	$700 \times 900 =$ _____	

MORE MULTIPLICATION - MAKE A TOP PRODUCT!

-START WITH THESE PROBLEMS!

$\begin{array}{r} 26 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 93 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$
---	---	---	---	---	---

$\begin{array}{r} 212 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 190 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 345 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 411 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 173 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 241 \\ \times 8 \\ \hline \end{array}$
--	--	--	--	--	--

-COMPLETE THE MULTIPLE STICKS

$\times 20$	20	40	60									
-------------	----	----	----	--	--	--	--	--	--	--	--	--

$\times 16$												
-------------	--	--	--	--	--	--	--	--	--	--	--	--

$\times 12$												
-------------	--	--	--	--	--	--	--	--	--	--	--	--

-NOW SOLVE THESE PROBLEMS!

$\begin{array}{r} 25 \\ \times 12 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 13 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ \times 13 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 14 \\ \hline \end{array}$	$\begin{array}{r} 55 \\ \times 14 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ \times 15 \\ \hline \end{array}$
--	--	--	--	--	--

$\begin{array}{r} 136 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 785 \\ \times 12 \\ \hline \end{array}$	$\begin{array}{r} 249 \\ \times 11 \\ \hline \end{array}$	$\begin{array}{r} 412 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 587 \\ \times 12 \\ \hline \end{array}$	$\begin{array}{r} 350 \\ \times 9 \\ \hline \end{array}$
---	---	---	--	---	--

- SHADE IN ALL THE SQUARES WITH WRONG ANSWERS!

"MULTIPLICATION - A SIGN OF THE _____"

X	5	8	9	3	2	4	11	6	7	10	5	9
2	10	16	18	6	4	8	22	12	14	20	10	18
4	20	32	36	12	8	16	44	20	28	40	20	36
9	45	72	81	27	18	36	90	54	63	90	45	81
6	35	48	54	18	15	24	66	36	48	50	20	54
2	10	12	18	8	4	8	22	12	10	20	5	18
4	20	32	32	12	8	16	44	24	30	40	20	36
6	30	50	54	12	12	24	66	36	42	40	30	54
3	9	24	27	9	5	12	33	18	21	30	10	27
7	35	56	63	21	14	28	77	42	39	70	30	63
1	5	8	9	3	2	4	11	6	5	9	2	9

MAXWELL'S MULTIPLICATION MANIA!



- COMPLETE THE TABLES AND WORK OUT THE ANSWERS TO THE PROBLEMS!

X	7	8	3	0	4	9
8						
3						
6						
2						

$$(3 \times 7) + 1 = \underline{\quad\quad} \quad (7 \times 6) + 5 = \underline{\quad\quad}$$

$$(6 \times 2) + 0 = \underline{\quad\quad} \quad (2 \times 9) + 0 = \underline{\quad\quad}$$

$$(3 \times 9) + 0 = \underline{\quad\quad} \quad (5 \times 5) + 4 = \underline{\quad\quad}$$

$$(8 \times 8) + 5 = \underline{\quad\quad} \quad (7 \times 8) + 4 = \underline{\quad\quad}$$

$$(2 \times 2) + 1 = \underline{\quad\quad} \quad (9 \times 2) + 7 = \underline{\quad\quad}$$

$$(5 \times 8) + 3 = \underline{\quad\quad} \quad (9 \times 5) + 5 = \underline{\quad\quad}$$

$$(7 \times 3) + 3 = \underline{\quad\quad} \quad (9 \times 0) + 8 = \underline{\quad\quad}$$

$$(5 \times 6) + 4 = \underline{\quad\quad} \quad (3 \times 8) + 0 = \underline{\quad\quad}$$

X	3	9	5	7	6	4
2						
5						
7						
1						
9						

X	0	6	7	9	3	8
4						
11						
6						
12						

$$(4 \times 3) + 3 = \underline{\quad\quad} \quad (8 \times 6) + 7 = \underline{\quad\quad}$$

$$(4 \times 0) + 0 = \underline{\quad\quad} \quad (8 \times 2) + 6 = \underline{\quad\quad}$$

$$(4 \times 9) + 3 = \underline{\quad\quad} \quad (6 \times 4) + 4 = \underline{\quad\quad}$$

$$(9 \times 0) + 8 = \underline{\quad\quad} \quad (3 \times 6) + 0 = \underline{\quad\quad}$$

NOW USE YOUR MULTIPLICATION KNOWLEDGE TO FILL IN THE GAPS BELOW!

$$5 \times 8 = 4 \times \underline{\quad\quad}$$

$$5 \times \underline{\quad\quad} = 10 \times 3$$

$$42 \times 1 = 7 \times \underline{\quad\quad}$$

$$7 \times \underline{\quad\quad} = 5 \times 7$$

$$8 \times \underline{\quad\quad} = 1 \times 64$$

$$9 \times 8 = \underline{\quad\quad} \times 6$$

$$5 \times \underline{\quad\quad} = 35 \times 2$$

$$6 \times 6 = 4 \times \underline{\quad\quad}$$

$$12 \times 10 = \underline{\quad\quad} \times 3$$

$$6 \times 3 = 9 \times \underline{\quad\quad}$$

$$6 \times 4 = 3 \times \underline{\quad\quad}$$

$$10 \times \underline{\quad\quad} = 4 \times 20$$

$$2 \times 12 = 4 \times \underline{\quad\quad}$$

$$7 \times 15 = \underline{\quad\quad} \times 3$$

ALL THIS MULTIPLYING LEAVES MAXWELL A LITTLE EXHAUSTED!



"DIANNE, DO YOU DEFINITELY FIND DIVISION EASY?"

"YES!"



**DIVINE DIANNE
THE DIVIDING DOORMOUSE**

$15 \div 3 =$

$36 \div 9 =$

$60 \div 6 =$

$24 \div 3 =$

$20 \div 4 =$

$5 \div 1 =$

$56 \div 7 =$

$32 \div 4 =$

$30 \div 5 =$

$10 \div 10 =$

$26 \div 2 =$

$15 \div 5 =$

$16 \div 8 =$

$36 \div 3 =$

$63 \div 9 =$

$40 \div 8 =$

$18 \div 6 =$

$44 \div 4 =$

$8 \div 1 =$

$36 \div 6 =$

$28 \div 7 =$

$45 \div 5 =$

$90 \div 10 =$

$14 \div 7 =$

$14 \div 2 =$

$72 \div 8 =$

$13 \div 1 =$

$50 \div 10 =$

$40 \div 2 =$

$27 \div 9 =$

$10 \overline{)80}$

$6 \overline{)48}$

$7 \overline{)42}$

$5 \overline{)25}$

$9 \overline{)54}$

$4 \overline{)16}$

$9 \overline{)90}$

$10 \overline{)60}$

$7 \overline{)49}$

$5 \overline{)100}$

$9 \overline{)72}$

$6 \overline{)24}$

$4 \overline{)28}$

$8 \overline{)56}$

$10 \overline{)40}$

$6 \overline{)42}$

$9 \overline{)45}$

$2 \overline{)22}$

$3 \overline{)27}$

$9 \overline{)81}$

HOW CAN WE MAKE DIVISION EASY?

DO THESE SUMS TO DECODE DIANNE'S HELPFUL HINT!

$\boxed{T} \quad \frac{20}{5}$

$\boxed{O} \quad \frac{66}{6}$

$\boxed{K} \quad \frac{200}{10}$

$\boxed{Y} \quad \frac{90}{3}$

$\boxed{S} \quad 12 \overline{)192}$

$\boxed{V} \quad \frac{24}{4}$

$\boxed{M} \quad \frac{63}{7}$

$\boxed{I} \quad \frac{18}{9}$

$\boxed{R} \quad \frac{60}{1}$

$\boxed{W} \quad 11 \overline{)132}$

$\boxed{N} \quad \frac{30}{3}$

$\boxed{L} \quad \frac{24}{8}$

$\boxed{P} \quad \frac{100}{2}$

$\boxed{E} \quad \frac{91}{7}$

$\boxed{A} \quad 12 \overline{)480}$

“

50 3 13 40 16 13 9 30 3 2 4 4 3 13 50 40 3

20 10 11 12 30 11 6 60 9 6 3 4 2 50 3 13 16

(REMEMBER TO CORRECT ANY MISTAKES)

MORE DIVISION WITH...

... DIVINE DIANNETTE DIVIDING DOORMOUSE!

(MAX'S CRAZY COUSIN!)



$$8 \overline{)1088}$$

$$7 \overline{)1505}$$

$$6 \overline{)1944}$$

$$7 \overline{)3024}$$

$$5 \overline{)840}$$

$$6 \overline{)1548}$$

$$8 \overline{)1880}$$

$$7 \overline{)1358}$$

$$6 \overline{)3294}$$

$$8 \overline{)3408}$$

$$7 \overline{)3255}$$

$$5 \overline{)3285}$$

$$7 \overline{)5691}$$

$$5 \overline{)4245}$$

$$6 \overline{)5706}$$

$$8 \overline{)4344}$$

- COMPLETE THE DIVIDING SQUARES

$$\begin{array}{r} \div \\ \begin{array}{|c|c|c|} \hline 48 & 6 & 8 \\ \hline 8 & 2 & \dots \\ \hline 6 & \dots & 2 \\ \hline \end{array} \end{array}$$

$$\begin{array}{r} \div \\ \begin{array}{|c|c|c|} \hline 42 & 6 & \dots \\ \hline 14 & 2 & \dots \\ \hline \dots & \dots & \dots \\ \hline \end{array} \end{array}$$

$$\begin{array}{r} \div \\ \begin{array}{|c|c|c|} \hline 200 & 10 & \dots \\ \hline 20 & 5 & \dots \\ \hline \dots & \dots & \dots \\ \hline \end{array} \end{array}$$

$$2 \overline{)1368}$$

$$3 \overline{)25560}$$

$$4 \overline{)30124}$$

$$5 \overline{)31210}$$

$$9 \overline{)371079}$$

$$10 \overline{)789520}$$

$$11 \overline{)283910}$$

$$12 \overline{)190872}$$

- SOME TURTLE POWER PUZZLES!

HOW DO YOU RECOGNISE RICH TURTLES?

$$\overline{28} \overline{39} \overline{32} \overline{42} \quad \overline{34} \overline{32} \overline{45} \overline{49}$$

$$\overline{27} \overline{32} \overline{23} \overline{27} \overline{36} \overline{32} \quad \overline{37} \overline{32} \overline{35} \overline{44} \quad \overline{25} \overline{34} \overline{32} \overline{45} \overline{28} \overline{32} \overline{49} \overline{25}$$

„WHAT IS GREEN & USES 'SHELL' TO GO 100 km/h? „

$$\overline{45} \quad \overline{28} \overline{43} \overline{49} \overline{28} \overline{36} \overline{32} \quad \overline{31} \overline{37} \quad \overline{45} \quad \overline{25} \overline{27} \overline{23} \overline{49} \overline{28} \overline{25} \quad \overline{35} \overline{45} \overline{49}$$

Y $336 \div 8$

K $220 \div 5$

R $196 \div 4$

V $258 \div 6$

N $222 \div 6$

I $124 \div 4$

L $180 \div 5$

G $280 \div 8$

W $306 \div 9$

H $273 \div 7$

O $207 \div 9$

P $189 \div 7$

A $540 \div 12$

T $336 \div 12$

S $275 \div 11$

E $352 \div 11$

CALCULATOR DIVISION

ANOTHER JOB FOR...

...MISS CLAUDIA
CALCULATOR!!



$3780 \div 21 = \underline{\hspace{2cm}}$

$6840 \div 19 = \underline{\hspace{2cm}}$

$8544 \div 16 = \underline{\hspace{2cm}}$

$8150 \div 25 = \underline{\hspace{2cm}}$

$12684 \div 28 = \underline{\hspace{2cm}}$

$14637 \div 17 = \underline{\hspace{2cm}}$

- COMPLETE THESE MULTIPLE BOXES

$18 \times 543 = \boxed{\hspace{2cm}}$

$18 \times 345 = \boxed{\hspace{2cm}}$

$18 \times 262 = \boxed{\hspace{2cm}}$

$23 \times 456 = \boxed{\hspace{2cm}}$

$23 \times 654 = \boxed{\hspace{2cm}}$

$23 \times 191 = \boxed{\hspace{2cm}}$

- NOW DO THESE DIVISION SUMS!

$18 \overline{) 9774}$

$18 \overline{) 6210}$

$18 \overline{) 4716}$

$23 \overline{) 10488}$

$23 \overline{) 15042}$

$23 \overline{) 4393}$

$34 \overline{) 87414}$

$34 \overline{) 96084}$

$34 \overline{) 99756}$

$20 \overline{) 654300}$

$30 \overline{) 945600}$

$40 \overline{) 340840}$

- THE FINAL TEN HAVE A DECIMAL REMAINDER.
READ THE FIRST DECIMAL PLACE AND WRITE THE
LETTER ABOVE THE NUMBER IN THE PUZZLE!

$\boxed{C} \ 352 \div 14$

$\boxed{E} \ 1571 \div 26$

$\boxed{O} \ 941 \div 19$

$\boxed{A} \ 700 \div 16$

$\boxed{N} \ 489 \div 15$

$\boxed{M} \ 1448 \div 24$

$\boxed{X} \ 811 \div 18$

$\boxed{R} \ 650 \div 17$

$\boxed{T} \ 1615 \div 27$

$\boxed{S} \ 1216 \div 21$

"
 $\overline{) 3598} \div \overline{) 82478} \quad \overline{) 564} \quad \overline{) 479} \overset{Y}{}$
 $\overline{) 9534} \quad \overline{) 724} \quad \overline{) 3476} \quad \overline{) 658} \quad \overline{) 40718} \overset{!}{}$ "

MAX & DI TEAM UP TO BRING YOU MORE OF THEIR... MERITORIOUS MATHS!



$3 \times 8 = \underline{\quad}$ $9 \times 2 = \underline{\quad}$ $5 \times 3 = \underline{\quad}$ $7 \times 6 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$ $5 \times 5 = \underline{\quad}$ $7 \times 7 = \underline{\quad}$ $9 \times 9 = \underline{\quad}$

$$\begin{array}{r} 14 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 124 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 235 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 346 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 132 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 240 \\ \times 9 \\ \hline \end{array}$$

$70 \div 7 = \underline{\quad}$ $60 \div 3 = \underline{\quad}$ $64 \div 8 = \underline{\quad}$ $42 \div 2 = \underline{\quad}$

$81 \div 9 = \underline{\quad}$ $45 \div 5 = \underline{\quad}$ $40 \div 4 = \underline{\quad}$ $30 \div 6 = \underline{\quad}$

$$12 \overline{)108}$$

$$12 \overline{)144}$$

$$12 \overline{)192}$$

$$12 \overline{)240}$$

$$12 \overline{)360}$$

$$2 \overline{)2568}$$

$$3 \overline{)4725}$$

$$4 \overline{)65432}$$

$$5 \overline{)31475}$$

S
$$\begin{array}{r} 78 \\ \times 10 \\ \hline \end{array}$$

O
$$\begin{array}{r} 39 \\ \times 8 \\ \hline \end{array}$$

Y
$$\begin{array}{r} 27 \\ \times 9 \\ \hline \end{array}$$

i
$$\begin{array}{r} 62 \\ \times 12 \\ \hline \end{array}$$

A
$$\begin{array}{r} 54 \\ \times 7 \\ \hline \end{array}$$

G
$$\begin{array}{r} 60 \\ 15 \\ \hline \end{array}$$

H
$$\begin{array}{r} 102 \\ 17 \\ \hline \end{array}$$

T
$$\begin{array}{r} 100 \\ 20 \\ \hline \end{array}$$

M
$$\begin{array}{r} 175 \\ 25 \\ \hline \end{array}$$

“
$$\begin{array}{r} \underline{\quad} \\ 4 \ 312 \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 7 \ 744 \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 4 \ 6 \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 5 \ 243 \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 7 \ 378 \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 5 \ 6 \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 780 \end{array}$$
 !”

WHIZZ-KIDS WORKSHEET!

- THIS IS THE FIRST OF 30 W.K.W.S. WORK THROUGH THEM, RECORD YOUR RESULTS ON THE GRAPH AT THE BACK OF THE BOOK, & WATCH YOURSELF IMPROVE!

NIFTY NUMBERS

$$\begin{array}{ll}
 15+5 = \underline{\quad} & 12 \times 7 = \underline{\quad} \\
 3 \times 12 = \underline{\quad} & 4+28 = \underline{\quad} \\
 16+7 = \underline{\quad} & 19-17 = \underline{\quad} \\
 20-17 = \underline{\quad} & 45 \div 9 = \underline{\quad} \\
 5 \times 0 = \underline{\quad} & 55 \div 5 = \underline{\quad} \\
 36 \div 9 = \underline{\quad} & 31+11 = \underline{\quad} \\
 13+8 = \underline{\quad} & 12-12 = \underline{\quad} \\
 2 \times 26 = \underline{\quad} & 13+13 = \underline{\quad} \\
 4 \times 15 = \underline{\quad} & 16 \times 3 = \underline{\quad} \\
 99 \div 11 = \underline{\quad} & 14+26 = \underline{\quad}
 \end{array}$$

POSSIBLE PATTERNS

2, 4, 6, , 10
 5, 10, 15, 20,
 1, 7, 13, , 25
 50, 100, 200, 400,
 15, 35, 55, 75,
 1, 6, 10, 13, 15,
 1, 3, 7, 15, ,
 100, 80, 60, ,
 1, 4, 10, 22, ,
 2, 5, 9, 14, ,

THE QUINTUS QUIZ

$$7 \overline{) 385}$$

$$6 \overline{) 768}$$

$$4 \overline{) 88} \quad 3 \overline{) 99}$$

$$11 \overline{) 1991}$$

WORDY WHIMS

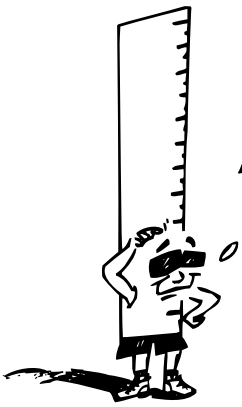
$$\begin{array}{l}
 4 \text{ PLUS } 2 = \underline{\quad} \\
 10 \text{ MINUS } 5 = \underline{\quad} \\
 3 \text{ LESS THAN } 15 = \underline{\quad} \\
 \text{FIVE FIVES} = \underline{\quad} \\
 \text{HOW MANY 2's IN 20} \underline{\quad} \\
 \text{DIVIDE 24 BY 3} \underline{\quad} \\
 \text{PRODUCT OF 3 AND 9} \underline{\quad} \\
 \text{NINE PLUS 6} = \underline{\quad} \\
 24 \text{ TAKEAWAY 9} = \underline{\quad} \\
 3 \text{ MORE THAN 5} = \underline{\quad}
 \end{array}$$

EXTRA EXAMPLES

$$\begin{array}{l}
 5+12 = \underline{\quad} + 8 \\
 25 - \underline{\quad} = 8 \times 2 \\
 \text{TOTAL OF 5, 7, 8, 4} \underline{\quad} \\
 \text{DIFFERENCE BETWEEN 16 \& 9} \underline{\quad} \\
 210 \div 012 = \underline{\quad} \\
 144 - 144 = \underline{\quad} \\
 \text{FOUR LOTS OF } \underline{\quad} \text{ EQUAL 100} \\
 10 \times 10 \times 10 = \underline{\quad} \\
 \text{HALF OF 4} \underline{\quad} \\
 \$10 \text{ DIVIDED INTO 5 PEOPLE} \underline{\quad}
 \end{array}$$

NUMBER OF MISTAKES _____





RODNEY STANDS BACK TO CONTEMPLATE SOME ELEMENTS OF TRUTH!

- { THE SET OF MY TEACHERS IS _____ }
- { THE SET OF MY CLOSE FAMILY IS _____ }
- { THE SET OF MY FRIENDS IS _____ }
- { THE SET OF MY FAVORITE THINGS IS _____ }
- { THE SET OF MY CAREER AMBITIONS IS _____ }

LIST THE SET OF STUDENTS IN OUR CLASS WHOSE FIRST NAME STARTS WITH THE LETTER :

N	{ _____ }
T	{ _____ }
Z	{ _____ }

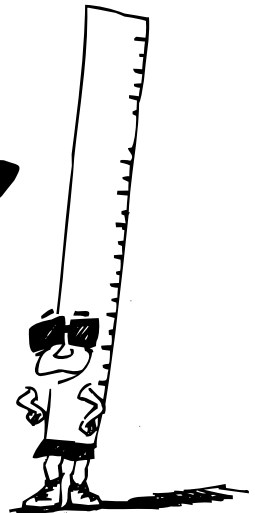
LIST THE SET OF:

- OUR T.V. CHANNELS { _____ }
- OUR SCHOOL HOLIDAYS { _____ }
- LETTERS IN THE WORD 'TEENRAGER' { _____ }
- LETTERS IN THE WORD 'IBBIDDIBIB' { _____ }

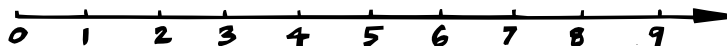
P = { 1, 2, 3, 4, 5, 6 }	Q = { 2, 4, 6, 8, 10 }	ELEMENTS IN BOTH SETS = { _____ }
R = { 10, 9, 8, 7, 6 }	S = { 3, 6, 9, 12 }	ELEMENTS IN BOTH SETS = { _____ }
X = { 5, 8 }	Y = { 4, 7, 9 }	ALL ELEMENTS IN X OR Y = { _____ }
Z = { 0, 1, 2 }	A = { 1, 2, 3 }	ALL ELEMENTS IN A OR Z = { _____ }

YO! RODNEY RULER is BACK, WITH SOME... ...MAIN LINE MATHS!

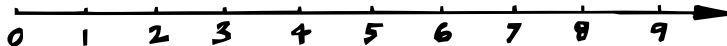
-PLOT EACH SET ON
THE WHOLE NUMBER LINE
GIVEN.



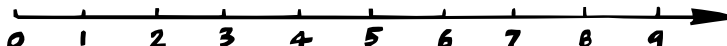
$$\{0, 2, 6, 7, 8\}$$



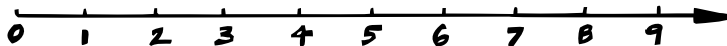
$$\{n < 5\}$$



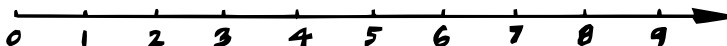
$$\{u < 8\}$$



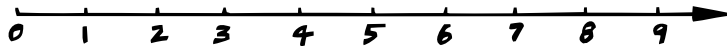
$$\{m \leq 3\}$$



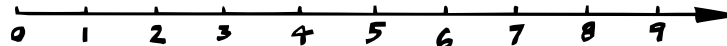
$$\{b > 6\}$$



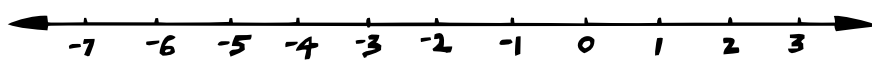
$$\{e > 4\}$$



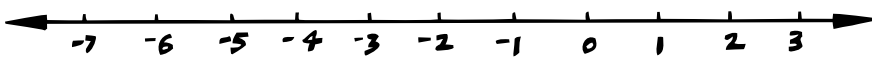
$$\{r \geq 7\}$$



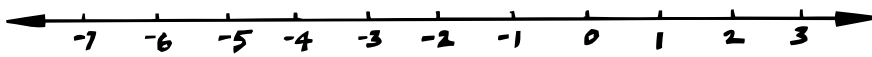
-AND ON
THESE
INTEGER
NUMBER
LINES



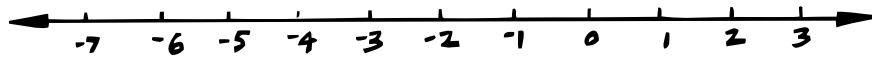
$$\{-2, -1, 0, 1, 2\}$$



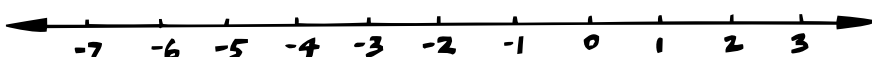
$$\{l < 2\}$$



$$\{i < -3\}$$

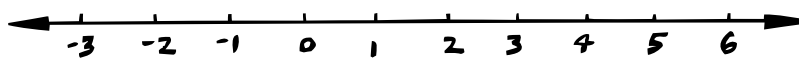


$$\{n \leq -1\}$$

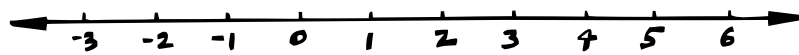


$$\{e > -5\}$$

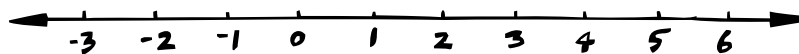
$$\{-2 < y < 4\}$$



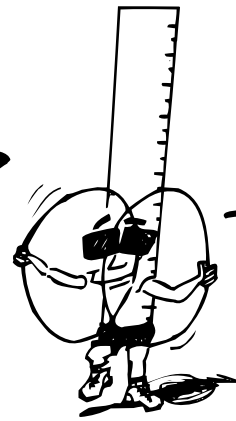
$$\{-3 < E < 2\}$$



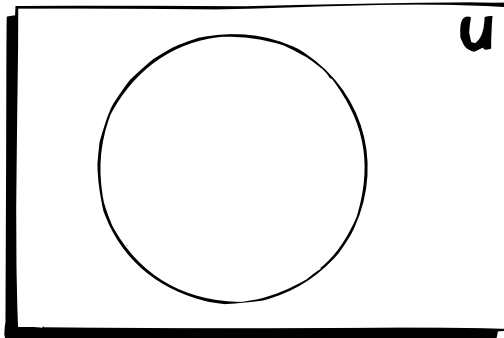
$$\{-1 \leq S \leq 6\}$$



YO! RODNEY RULER is BACK AGAIN WITH SOME... SIZZLER SETS!



-YEH, GIDDY!
JUST PRACTISING
MY VENN
DIAGRAM
IMPERSONATIONS



MY NAME IS _____
THERE ARE _____ LETTERS IN MY NAME
PLACE THE LETTERS INSIDE THE CIRCLE
IN THE VENN DIAGRAM. U IS THE SET OF ALL LETTERS

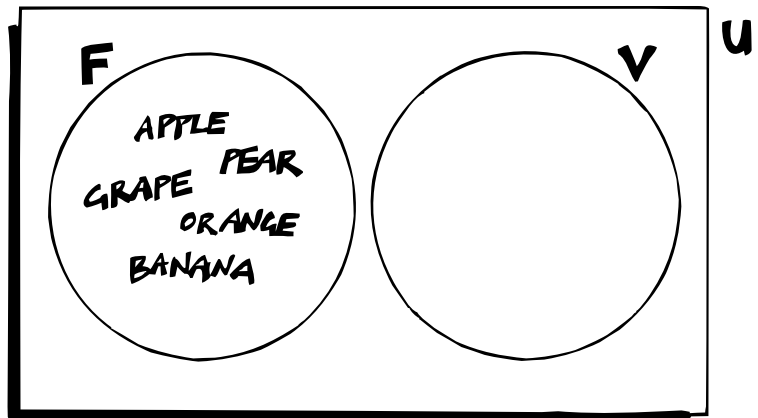
-HERE IS ANOTHER VENN DIAGRAM

HOW MANY IN SET F? 5

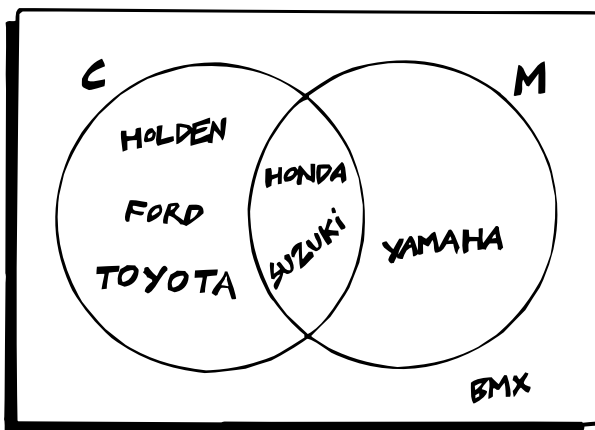
GIVE A NAME TO SET F

F = { _____ }

WHAT WOULD BE A GOOD NAME
FOR THE UNIVERSAL SET ?



V IS THE SET OF VEGETABLES
I LIKE - FILL IN THE V CIRCLE



U = VEHICLES

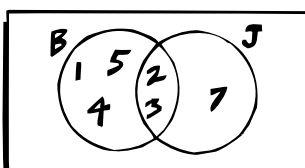
C IS THE SET OF CARS
M IS THE SET OF MOTORCYCLES
WHAT BELONGS TO SET C ?

WHAT BELONGS TO SET M ?

WHICH COMPANIES MAKE BOTH CARS
& MOTORCYCLES ?

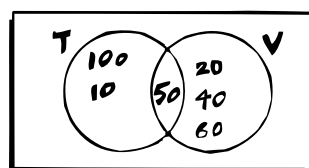
THIS IS THE I _____ SET

WHY IS BMX OUTSIDE THE CIRCLES?



B - { _____ } J - { _____ }

INTERSECTION = { _____ }



T - { _____ } V - { _____ }

INTERSECTION = { _____ }

AND FINALLY...

SIMPLY ALGEBRA!



1 APPLE AND 1 APPLE AND 1 APPLE...
...YOU HAVE 3 APPLES

$$a + a + a = \underline{\quad\quad} \quad b + b + b + b + b = \underline{\quad\quad}$$

$$c + c + c + c = \underline{\quad\quad} \quad d + d + d + d + d + d + d + d = \underline{\quad\quad}$$

$$e + e + e + e + e + e + e + e + e + e + e + e = \underline{\quad\quad}$$

$$2f + f = \underline{\quad\quad}$$

$$2g + 3g = \underline{\quad\quad}$$

$$6h + 3h = \underline{\quad\quad}$$

$$5i + 8i = \underline{\quad\quad}$$

$$7j + 14j = \underline{\quad\quad}$$

$$k + 4k + 6k = \underline{\quad\quad}$$

$$2l + 2l + 2l = \underline{\quad\quad} \quad 8m + 7m = \underline{\quad\quad}$$



YOU'VE GOT 3 DOUGHNUTS, EAT TWO, YOU HAVE 1 DOUGHNUT

-NOW SIMPLIFY



$$3d - 2d = \underline{\quad\quad}$$

$$3e - 3e = \underline{\quad\quad}$$

$$13p - 2p = \underline{\quad\quad}$$

$$16q - 2q = \underline{\quad\quad}$$

$$7r - 4r = \underline{\quad\quad}$$

$$9s - 7s = \underline{\quad\quad}$$

$$8t - 3t = \underline{\quad\quad}$$

$$16v - 5v = \underline{\quad\quad}$$

$$14x - x = \underline{\quad\quad}$$

$$12y - 11y = \underline{\quad\quad}$$

WHAT DO MONSTERS READ IN THE NEWSPAPER?

-SIMPLIFY THESE EXPRESSIONS TO FIND THE ANSWER

H	$3n + 4n$
---	-----------

E	$6n + 8n$
---	-----------

P	$4n + 5n$
---	-----------

L	$n + 2n + 3n$
---	---------------

T	$11n - n$
---	-----------

O	$9n - 4n$
---	-----------

S	$15n - 7n$
---	------------

R	$3n - 2n - n$
---	---------------

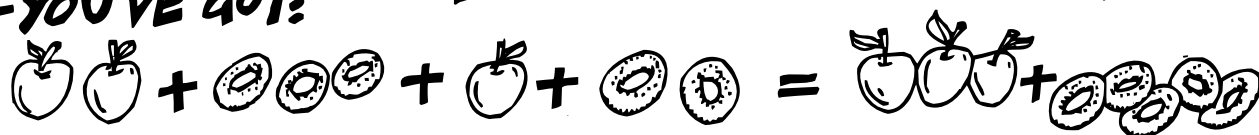


$$\underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad}$$

$$\underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad} \quad \underline{\quad\quad}$$

SIMPLIFY AND...

-YOU'VE GOT:



2 APPLES, 3 DOUGHNUTS, 1 APPLE, 2 DOUGHNUTS...

... YOU HAVE 3 APPLES & 5 DOUGHNUTS

NOW WRITE THESE SUMS IN A SIMPLER WAY

$$2a + 3d + a + 2d = \underline{\quad} + \underline{\quad}$$

$$4a + 2d + 3a + d = \underline{\quad} + \underline{\quad}$$

$$5e + 6f + 2e + 3f = \underline{\quad} + \underline{\quad}$$

$$8g + 2h + 4g + 5h = \underline{\quad} + \underline{\quad}$$

$$10i + 9k + 12i + 17k = \underline{\quad} + \underline{\quad}$$

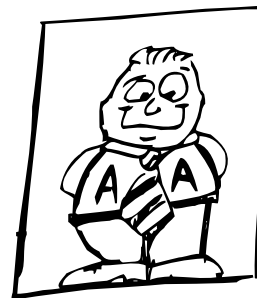
$$2t + t + 2v - v = \underline{\quad} + \underline{\quad}$$

$$6u - 2u + 5n + 4n = \underline{\quad} + \underline{\quad}$$

$$9r - 3r + 12 + 8 = \underline{\quad} + \underline{\quad}$$

$$20 - 11 + 7m - 2m = \underline{\quad} + \underline{\quad}$$

$$12x - 6x + 15z - 8z = \underline{\quad} + \underline{\quad}$$



Alfie
Algebra.

"DON'T MONKEY AROUND...OK!"

SIMPLIFY THE EXPRESSIONS BELOW,
AND MATCH THEM WITH THE ANSWERS AT THE BOTTOM
OF THE PAGE. THEN SHADE IN THE LETTER ABOVE
TO DISCLOSE PRIMATE PALS.

$$10x + 8x$$

$$5x + 6x + 2$$

$$4x + 8 + x$$

$$6 + 3x + 9x$$

$$9 + x + 2 + 7x$$

$$2x + 3 + 5x + 10$$

$$19x - 4x$$

$$17x - 11x + 4$$

$$5 + 10x - 2$$

$$9x - x - 2x - 3x$$

$$4 + 3x + 7x + 8 + 4x$$

G	R	O	C	E	R	S	●	S	M	I	L	E	●	A	L	L	●	W	A	Y	S
10x+7	8x+11	12x	6x+4	7x+13	6x	15x		12x+6	3x	9x+18	16x	10x+3		11x+2	15x+2	18x		14x+12	8x+13	5x+8	9x

THE POWER OF ALGEBRA!

SOME CONCEPTS TO KNOW

$4c$ MEANS _____

b^c MEANS _____

c^2 MEANS _____

$\frac{c}{4}$ MEANS _____

NOW SIMPLIFY...OK!

$2a \cdot b =$ _____ $5r \cdot 6r =$ _____ $5n \cdot n =$ _____

$3c \cdot 4d =$ _____ $t^v \cdot v =$ _____ $4q \cdot 3q =$ _____

$6g \cdot 2h =$ _____ $2a \cdot 3b =$ _____ $10s \cdot 7s =$ _____

$3m \cdot m =$ _____ $4e \cdot 5f =$ _____ $uv \cdot v =$ _____

$3p \cdot 2p =$ _____ $7i \cdot 10j =$ _____ $8x \cdot 9x =$ _____

$\frac{20}{10} =$ _____ $\frac{ab}{a} =$ _____ $\frac{6z}{z} =$ _____

10

a

z

$\frac{20n}{10} =$ _____ $\frac{27}{3} =$ _____ $\frac{cd}{c} =$ _____

10

3

c

$\frac{9v}{v} =$ _____ $\frac{27r}{3} =$ _____ $\frac{ef}{fe} =$ _____

v

3

fe

SIMPLIFY THESE SUMS

TO DISCOVER FRED FROGG'S FAVOURITE DRINK

C
K
O

$3v \cdot 5$

$2v \cdot 7v$

$\frac{48v}{4}$

4

L
R
A

$7v \cdot 2$

$5v \cdot 3v$

$\frac{48v}{3v}$

3v



$\frac{15v}{15v^2} \frac{12v}{16} \frac{14v^2}{16}$

$\frac{15v}{12v} \frac{14v}{16}$

LETTERS FOR NUMBERS! (OR 'A B C' TO '1 2 3')

IF A MEAL COSTS \$10 THEN 2 MEALS COST \$ _____

IF A BUN COSTS \$1 AND A DRINK COSTS \$2, THEN...

... 5 BUNS & 4 DRINKS COST \$ _____

$$5b + 4d = 5(_) + 4(_) = \underline{\hspace{2cm}}$$

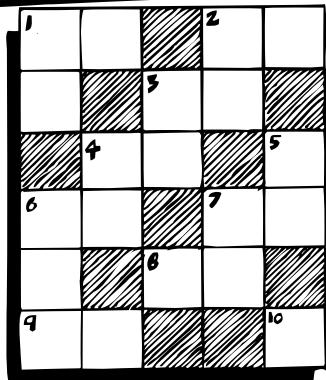
WHEN WE REPLACE LETTERS BY NUMBERS, WE ARE

NOW, GIVEN $v = 2, e = 3, x = 5$,
FIND THE VALUE OF



$v + e = \underline{\hspace{2cm}}$	$e + x = \underline{\hspace{2cm}}$
$x + v = \underline{\hspace{2cm}}$	$v + v + v = \underline{\hspace{2cm}}$
$2v = \underline{\hspace{2cm}}$	$3e = \underline{\hspace{2cm}}$
$5x = \underline{\hspace{2cm}}$	$8v + 1 = \underline{\hspace{2cm}}$
$4e + 7 = \underline{\hspace{2cm}}$	$2x + 5 = \underline{\hspace{2cm}}$
$3v - 1 = \underline{\hspace{2cm}}$	$6e - 10 = \underline{\hspace{2cm}}$

CROSS NUMBER



ACROSS

- 1 $5v$
- 2 $3x + 2$
- 3 $8e$
- 4 $6x + 4$
- 6 $4e + 2$
- 7 $5e + 3x$
- 8 $10x - 6$
- 9 $4v + 7$

DOWN

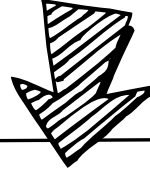
- 1 $5v + 3$
- 2 $3x - 1$
- 5 $10v$
- 4 $50e + 1$
- 3 $12v + 2x$
- 10 $6v - 4e$

FINALLY, GIVEN $s = 1, p = 4, y = 10$, EVALUATE:

$3s + p = \underline{\hspace{2cm}}$	$2y - p = \underline{\hspace{2cm}}$	$6s + 5p = \underline{\hspace{2cm}}$
$2p + 3y = \underline{\hspace{2cm}}$	$2s + 2y = \underline{\hspace{2cm}}$	$3y - 7s = \underline{\hspace{2cm}}$
$4s + 4y = \underline{\hspace{2cm}}$	$4p + y = \underline{\hspace{2cm}}$	$3p - y = \underline{\hspace{2cm}}$
$\frac{5p}{2} = \underline{\hspace{2cm}}$	$\frac{3 + s}{p} = \underline{\hspace{2cm}}$	$\frac{3y}{5} = \underline{\hspace{2cm}}$

QUICK KIWICHAT

GIVEN $P=4$ $Q=5$ $R=6$
AND THESE CLUES...



$$A = P - 3$$

$$G = 2R - Q$$

$$M = 2Q - 6$$

$$R = P + R$$

$$V = Q(P + R)$$

$$B = R - P$$

$$I = Q + 3$$

$$N = 11 - R$$

$$S = PQ$$

$$H = Q + R$$

$$E = R \div 2$$

$$L = 2P + 1$$

$$O = 3R - 12$$

$$T = QR$$

...FIND THE Q.K. MESSAGE

N
 $\frac{9}{3} \frac{1}{10} \frac{5}{8} \frac{5}{7}$

$\frac{9}{3} \frac{30}{30} \frac{3}{10} \frac{20}{20}$

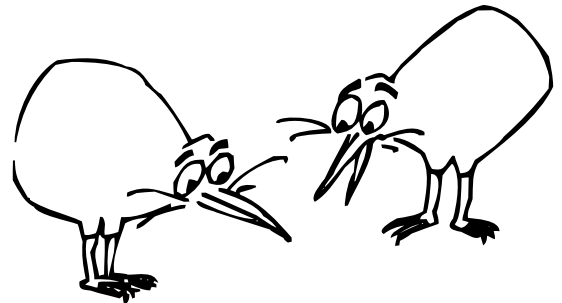
$\frac{20}{50} \frac{10}{3}$

$\frac{7}{3} \frac{30}{20}$

$\frac{30}{11} \frac{3}{3}$

$\frac{20}{50} \frac{4}{4}$

$\frac{2}{3} \frac{1}{30}$



WHIZZ-KIDS WORKSHEET!



NIFTY NUMBERS

- $7 + 8 = \underline{\quad}$
- $9 - 1 = \underline{\quad}$
- $8 \times 6 = \underline{\quad}$
- $9 \div 3 = \underline{\quad}$
- $6 + 5 = \underline{\quad}$
- $5 - 2 = \underline{\quad}$
- $4 \times 7 = \underline{\quad}$
- $7 \div 1 = \underline{\quad}$
- $3 + 9 = \underline{\quad}$
- $9 + 9 = \underline{\quad}$

DANDY DECIMALS

- $0.4 + 0.1 = \underline{\quad}$
- $0.3 + 0.3 = \underline{\quad}$
- $0.4 - 0.1 = \underline{\quad}$
- $0.3 - 0.3 = \underline{\quad}$
- $1.2 + 0.7 = \underline{\quad}$
- $1.8 - 0.7 = \underline{\quad}$
- $3 \times 0.2 = \underline{\quad}$
- $2 \times 0.4 = \underline{\quad}$
- $\frac{0.6}{2} = \underline{\quad}$ $\frac{1.2}{2} = \underline{\quad}$

RADICAL ROMANS

- III =
- V =
- VII =
- X =
- XI =
- = 2
- = 4
- = 8
- = 12
- = 20

EXTRA EXAMPLES

- $123 + 200 = \underline{\quad}$
- $300 + 300 = \underline{\quad}$
- $200 - 185 = \underline{\quad}$
- $300 - 140 = \underline{\quad}$
- $40 \times 5 = \underline{\quad}$
- $90 \times 10 = \underline{\quad}$
- $50 \div 5 = \underline{\quad}$
- $1200 \div 10 = \underline{\quad}$
- $333 + 222 = \underline{\quad}$
- $543 - 345 = \underline{\quad}$

THE QUINTUS QUIZ

I LEFT HOME AT
IT TOOK MINUTES TO
GET TO SCHOOL. SCHOOL WENT
FOR HOURS. SUPPER
WAS AT TODAY. I WAS
OUT OF BED FOR HOURS.

- MONDAY -
OUT OF BED 6:00 a.m.
LEFT HOME 8:00
GOT TO SCHOOL 9:00
SCHOOL FINISHED 3:00
ARRIVED HOME 4:00
SUPPER TIME 8:30
INTO MY BED 9:00

NUMBER OF MISTAKES

ORDER COUNTS!

"M _____ & DIVIDE
BEFORE YOU A _____ & SUBTRACT"



$9 + 6 \times 2 =$ _____	$7 \times 3 + 2 =$ _____	$7 + 3 \times 2 =$ _____
$6 + 9 \times 2 =$ _____	$8 \times 5 + 6 =$ _____	$8 + 5 \times 6 =$ _____
$4 - 1 \times 3 =$ _____	$20 \times 2 - 4 =$ _____	$20 - 2 \times 4 =$ _____
$10 - 3 \times 3 =$ _____	$9 \times 2 - 3 =$ _____	$9 - 2 \times 3 =$ _____
$20 - 5 \times 4 =$ _____	$40 \div 4 + 5 =$ _____	$60 \div 6 - 7 =$ _____

— COMPLETE THE EQUATIONS BELOW BY USING +, -, x, ÷
SIGNS IN THE Δ !

$5 \Delta 4 + 8 = 28$

$10 \times 3 \Delta 2 = 32$

$48 \Delta 6 - 3 = 5$

$63 \div 9 \Delta 1 = 6$

$1 + 4 \Delta 9 = 37$

$7 \Delta 8 \div 2 = 11$

$80 \Delta 8 \times 3 = 56$

$76 - 10 \Delta 3 = 46$

$12 \Delta 3 \Delta 4 = 19$

$5 \Delta 4 \Delta 1 = 20$

WHAT COMES FIRST? DO THESE SUMS TO FIND
THE ANSWER!

A $(6 + 3) \times 2$

O $7 + 1 \times 6$

B $(8 - 4) \times 5$

P $6 + 8 \times 3$

C $3 \times (4 + 1)$

R $9 + 2 \times 7$

E $8 \times (9 - 7)$

S $(1 + 4)^2$

H $2 \times 5 + 4$

T $3^2 + 2$

K $5 \times 3 + 2$

W $4^2 - 4$

N $6 \times 4 - 5$

Y $5^2 + 6^2$

20 23 18 15 17 16 11 25

11 14 16 19

30 13 12 16 23 25

ZANNY ZELDA ZERO*



Hi YAHi YAHi YA!
WORK HARD ON THIS
PAGE, & FIND OUT
WHY I'M SO
SPECIAL!

$13 + 18 = \underline{\hspace{2cm}}$

$25 + 61 = \underline{\hspace{2cm}}$

$1018 + 0 = \underline{\hspace{2cm}}$

$13 + 0 = \underline{\hspace{2cm}}$

$0 + 25 = \underline{\hspace{2cm}}$

$0 + 118 = \underline{\hspace{2cm}}$

$752 + 0 = \underline{\hspace{2cm}}$

$19164 + 0 = \underline{\hspace{2cm}}$

$0 + 999 = \underline{\hspace{2cm}}$

$0 + 23456 = \underline{\hspace{2cm}}$

"A NUMBER _____ WHEN ADDED TO ZERO"

$6 - 4 = \underline{\hspace{2cm}}$

$15 - 8 = \underline{\hspace{2cm}}$

$406 \times 0 = \underline{\hspace{2cm}}$

$6 - 0 = \underline{\hspace{2cm}}$

$15 - 0 = \underline{\hspace{2cm}}$

$0 \times 51 = \underline{\hspace{2cm}}$

$194 - 0 = \underline{\hspace{2cm}}$

$2013 - 0 = \underline{\hspace{2cm}}$

$0 \times 0.2 = \underline{\hspace{2cm}}$

$8 \times 9 = \underline{\hspace{2cm}}$

$12 \times 11 = \underline{\hspace{2cm}}$

$2085 \times 0 = \underline{\hspace{2cm}}$

$8 \times 0 = \underline{\hspace{2cm}}$

$12 \times 0 = \underline{\hspace{2cm}}$

$0 \times 345 = \underline{\hspace{2cm}}$

$32 \times 0 = \underline{\hspace{2cm}}$

$167 \times 0 = \underline{\hspace{2cm}}$

$0 \times 9.03 = \underline{\hspace{2cm}}$

"ANY NUMBER MULTIPLIED BY ZERO _____"

-AND NOW FOR...
.. ZELDA'S NAUGHTY WEE PUZZLE!

A $9 - 5 \times 0$

N $12 - 5 + 0 \times 3$

G $0 + 4 \times 2$

T $5 - 0 + 3 + 0 - 4$

H $0 \times 10 + 2$

U $9 + 2 \times 0 + 3 - 2$

I $20 + 0 - 14 - 0$

Y $6 \times 5 \times 0 \times 4$

O $2 + 0 + 3$

R $32 \div 4 \div 8$

"

7	10	4	4	0	7	5	4	2	6	7	8	4	10	1	7	S
---	----	---	---	---	---	---	---	---	---	---	---	---	----	---	---	---

6	7	4	5	7	9	10	8	2	4	0	7	5	10	8	2	4	!"
---	---	---	---	---	---	----	---	---	---	---	---	---	----	---	---	---	----

-Oh La La!

**-HEY ZELDA,
HAVE YOU GOT SOME
NUMBER PUZZLES
FOR US?**

**OUI OUI!
START BY
COMPLETING
THE SUMS BELOW
TO MAKE THEM EQUAL 15**



$27 - \underline{\hspace{2cm}}$ $15 - \underline{\hspace{2cm}}$ $30 \div \underline{\hspace{2cm}}$
 $9 + \underline{\hspace{2cm}}$ $5 \times \underline{\hspace{2cm}}$ $7 + \underline{\hspace{2cm}}$ $60 - \underline{\hspace{2cm}}$
 $3 + \underline{\hspace{2cm}}$ $22 - \underline{\hspace{2cm}}$ $13 + \underline{\hspace{2cm}}$ $2 \times 3 + \underline{\hspace{2cm}}$
 $2 \times 4 + \underline{\hspace{2cm}}$ $25 - 2 \times \underline{\hspace{2cm}}$ $5 \times 8 - \underline{\hspace{2cm}}$ $4^2 - \underline{\hspace{2cm}}$

-NOW PAIR THE SUMS BELOW THAT EQUAL THE SAME NUMBER!

$6 + 8$	<input type="radio"/>
$12 - 4$	<input type="radio"/>
$15 \div 5$	<input type="radio"/>
12×4	<input type="radio"/>
$(29 - 7) \div 11$	<input type="radio"/>

<input type="radio"/>	$(9 + 11) \div 10$
<input type="radio"/>	$16 - 13$
<input type="radio"/>	$64 \div 8$
<input type="radio"/>	$28 \div 2$
<input type="radio"/>	6×8

-NEXT, UNDERLINE THE SUMS THAT EQUAL 12 & CIRCLE THOSE THAT EQUAL 9.

$8 + 4$ $63 \div 7$ $\frac{1}{2}$ OF 8×3 $(18 + 6) \div 2$ $9 + 3$
 $57 - 45$ 4×3 $18 - 6$ $8 + 0$ $54 - 45$
 $5 + 4$ $9 - 9$ $27 \div 3$ $60 \div 5$ $(17 + 5) - 12$

-HOW MANY DIFFERENT NUMBERS CAN YOU MAKE USING ONLY THE NUMBER 4 FOUR TIMES!

$4 \div 4 + 4 - 4 = 1$ _____

$(4 \times 4) + (4 \times 4) = 32$ _____

$4 - 4 + 4 \times 4 = 16$ _____

SOLVING IS THE BEST SOLUTION

AN EQUATION IS _____

EXERCISE EASY:

$p+8=9$	$p=$ _____	$2+a=6$	$a=$ _____	$t+5=10$	$t=$ _____
$q+7=10$	$q=$ _____	$z+4=12$	$z=$ _____	$n+9=12$	$n=$ _____
$3+b=4$	$b=$ _____	$x+2=8$	$x=$ _____	$e-2=1$	$e=$ _____
$c-2=4$	$c=$ _____	$k-1=6$	$k=$ _____	$r-6=2$	$r=$ _____
$6-3=d$	$d=$ _____	$m-1=4$	$m=$ _____	$v-1=19$	$v=$ _____

EXERCISE EXCITED:

$2a=10$	$a=$ _____
$4b=40$	$b=$ _____
$6c=18$	$c=$ _____
$3d=24$	$d=$ _____
$5e=30$	$e=$ _____
$7f=49$	$f=$ _____
$8g=88$	$g=$ _____
$10h=200$	$h=$ _____
$9i=9$	$i=$ _____

$$\frac{n}{2} = 8 \quad n =$$

$$\frac{p}{3} = 10 \quad p =$$

$$\frac{r}{4} = 6 \quad r =$$

$$\frac{s}{5} = 12 \quad s =$$

$$\frac{t}{9} = 4 \quad t =$$

$$\frac{u}{10} = 1 \quad u =$$



SUZY SOLVER

WHY WOULD YOU NEVER GO HUNGRY IN THE DESERT?

- SOLVE THE EQUATIONS TO FIND OUT ...

$$b+13=16$$

$$21-f=20$$

$$12 \times t = 60$$

$$17+s=23$$

$$e-4=5$$

$$16+c=23$$

$$29-n=27$$

$$88 \div w = 8$$

$$18+4=33$$

$$9 \times i = 72$$

$$5 \times d = 20$$

$$r-4=9$$

$$48 \div h = 4$$

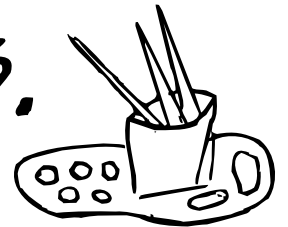
$$0+13=29$$

$$930-a=920$$

$$\overline{3} \quad \overline{9} \quad \overline{7} \quad \overline{10} \quad \overline{15} \quad \overline{6} \quad \overline{9} \quad \overline{16} \quad \overline{1} \quad \overline{5} \quad \overline{12} \quad \overline{9}$$

$$\overline{6} \quad \overline{10} \quad \overline{2} \quad \overline{4} \quad \overline{11} \quad \overline{12} \quad \overline{8} \quad \overline{7} \quad \overline{12} \quad \overline{8} \quad \overline{6} \quad \overline{5} \quad \overline{12} \quad \overline{9} \quad \overline{13} \quad \overline{9}$$

PRINT THE POSTERBOARDS.



EXERCISE EXTENDED:

$y - 3 = 9$	$y =$
$b + 11 = 20$	$b =$
$15 - m = 3$	$m =$
$23 - d = 8$	$d =$
$t \times t = 100$	$t =$
$w \div 3 = 9$	$w =$
$g + g = 16$	$g =$
$r - 7 = 8$	$r =$
$12 - p = 10$	$p =$
$q + 19 = 42$	$q =$

$x - 24 = 40$	$x =$
$\frac{1}{2} n = 16$	$n =$
$5s + 1 = 6$	$s =$
$3e + 4 = 10$	$e =$
$2h + 9 = 15$	$h =$
$4k + 1 = 17$	$k =$
$3f - 2 = 10$	$f =$
$4a + 2 = 22$	$a =$
$12v + 3 = 51$	$v =$
$5c + 4 = 39$	$c =$

SOLVE ANY EQUATION, AND

- WRITE THE LETTER ABOVE THE CORRECT ANSWER ON THE BOARD.

$20 + 45 + V = 99$

$502 + 199 + F = 740$

$4N = 184$

$78 + 35 + T = 157$

$R + 226 + 372 = 634$

$9O = 882$

$A + 69 + 89 = 209$

$5Q = 95$

$8E = 376$

$U + 98 + 26 = 215$

$3G = 48$

$7L = 434$

$100 + P + 200 = 355$

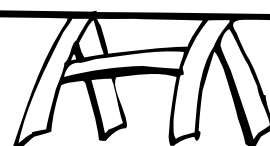
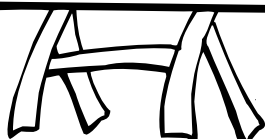
$2I = 74$

$6W = 294$

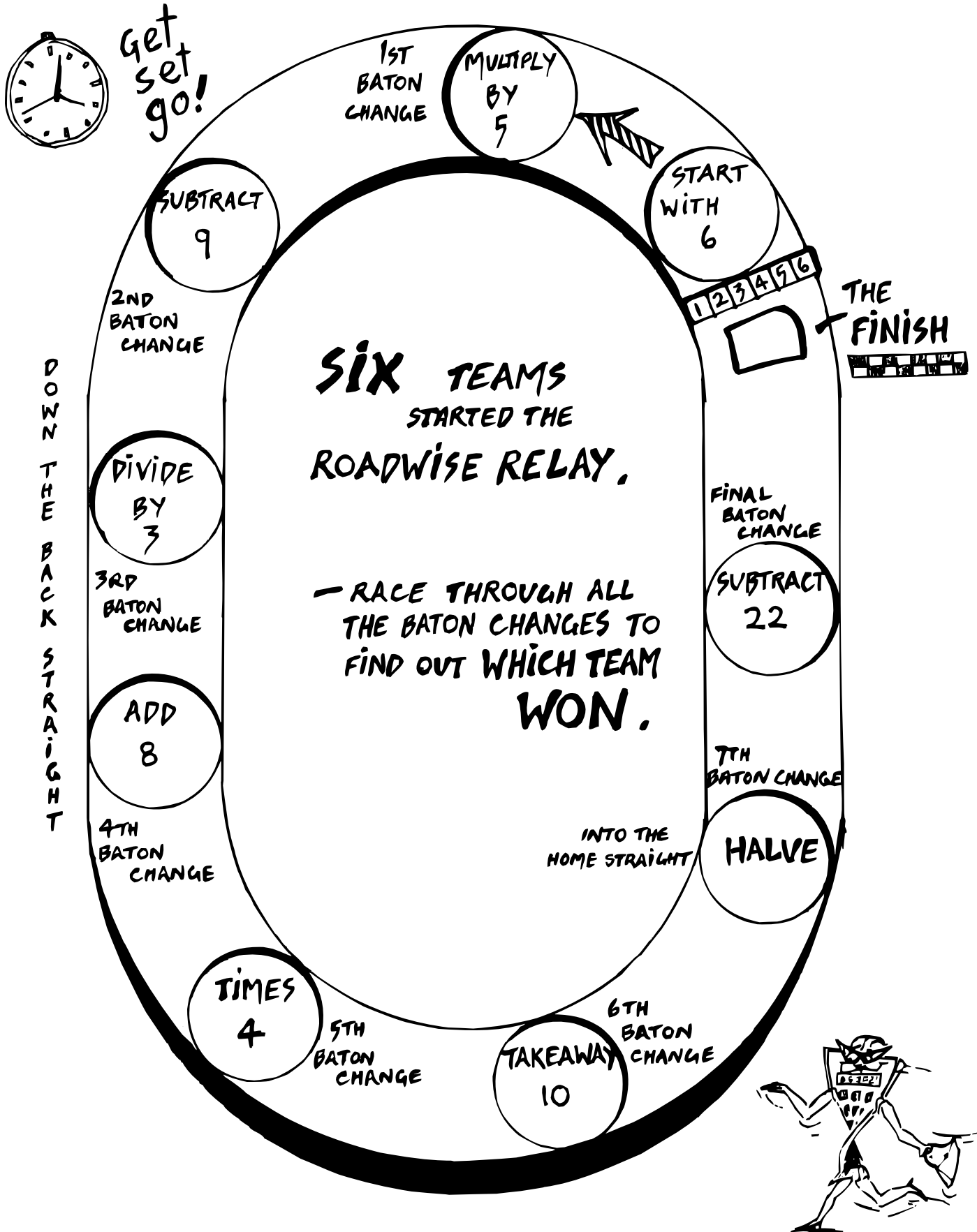
$215 + S + 308 = 587$

$10B + 18 = 148$

$\overline{64} \overline{98} \overline{98} \overline{46}$	$\overline{16} \overline{98} \overline{44}$	$\overline{37} \overline{64}$	$\overline{64} \overline{98} \overline{98} \overline{46}$	$\overline{16} \overline{98} \overline{46} \overline{47}$
$\overline{64} \overline{98} \overline{98} \overline{46}$	$\overline{36} \overline{37} \overline{55} \overline{47}$	$\overline{64} \overline{98} \overline{98} \overline{46}$	$\overline{36} \overline{98} \overline{44} \overline{44} \overline{47} \overline{46}$	
$\overline{13} \overline{91} \overline{44}$	$\overline{47} \overline{19} \overline{91} \overline{51} \overline{44} \overline{37} \overline{98} \overline{46} \overline{64}$	$\overline{49} \overline{47} \overline{62} \overline{62}$	$\overline{62} \overline{47} \overline{51} \overline{36} \overline{46} \overline{44}$	
$\overline{51} \overline{36} \overline{47}$	$\overline{46} \overline{47} \overline{34} \overline{47} \overline{36}$	$\overline{39} \overline{98} \overline{36} \overline{16} \overline{98} \overline{44} \overline{44} \overline{47} \overline{46}$!



THE "ROADWISE RELAY"



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$2 + 3 = \underline{\quad}$

$5 - 1 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$8 \div 2 = \underline{\quad}$

$4 + 9 = \underline{\quad}$

$9 - 5 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$5 \div 1 = \underline{\quad}$

$7 + 8 = \underline{\quad}$

$9 + 4 = \underline{\quad}$

20
3

MONEY MIXTURES

$10c + 10c = \underline{\quad}$

$20c - 10c = \underline{\quad}$

$2 \times 15c = \underline{\quad}$

$5 \times 20c = \underline{\quad}$

$20c + 20c = \underline{\quad}$

$50c - 20c = \underline{\quad}$

$\$6 + \$5 = \underline{\quad}$

$\$8 - \$7 = \underline{\quad}$

$\$10 \times 8 = \underline{\quad}$

$\$10 \div 5 = \underline{\quad}$

VISCOUS VARIABLES

$a + a = \underline{\quad}$

$b + b = \underline{\quad}$

$2c + c = \underline{\quad}$

$2d + 2d = \underline{\quad}$

$4e + 3e = \underline{\quad}$

$f - f = \underline{\quad}$

$2g - g = \underline{\quad}$

$4h - h = \underline{\quad}$

$3i - 2i = \underline{\quad}$

$j + j + j = \underline{\quad}$

EXTRA EXAMPLES

$100 + 123 = \underline{\quad}$

$200 + 300 = \underline{\quad}$

$100 - 85 = \underline{\quad}$

$200 - 160 = \underline{\quad}$

$50 \times 7 = \underline{\quad}$

$80 \times 10 = \underline{\quad}$

$30 \div 3 = \underline{\quad}$

$60 \div 10 = \underline{\quad}$

$111 + 111 = \underline{\quad}$

$234 - 134 = \underline{\quad}$

THE QUINTUS QUIZ

- HOW MANY DAYS IN FEBRUARY?

- WHAT DAY IS MARCH 12th?

- WHAT DATE IS THE SECOND THURSDAY OF MARCH?

- WHAT DATE IS THE FOURTH MONDAY OF FEBRUARY?

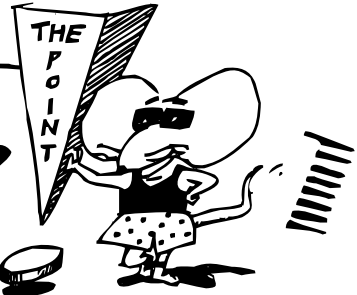
- HOW MANY FRIDAYS IN MARCH?

FEBRUARY						
M	T	W	T	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

MARCH						
M	T	W	T	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NUMBER OF MISTAKES

LET'S GET TO DA POINT WITH DAVE!!



- DAVE'S EXCELLENT DECIMAL ADDITION

$\begin{array}{r} 0.1 \\ 0.1 \\ \hline \end{array}$	$\begin{array}{r} 0.1 \\ 0.3 \\ \hline \end{array}$	$\begin{array}{r} 0.6 \\ 0.2 \\ \hline \end{array}$	$\begin{array}{r} 0.5 \\ 0.5 \\ \hline \end{array}$	$\begin{array}{r} 1.2 \\ 2.3 \\ \hline \end{array}$
$\begin{array}{r} 4.1 \\ 3.6 \\ \hline \end{array}$	$\begin{array}{r} 3.5 \\ 2.2 \\ \hline \end{array}$	$\begin{array}{r} 4.15 \\ 3.64 \\ \hline \end{array}$	$\begin{array}{r} 5.61 \\ 2.08 \\ \hline \end{array}$	$\begin{array}{r} 4.68 \\ 5.12 \\ \hline \end{array}$
$\begin{array}{r} 3.2 \\ 3.4 \\ \hline \end{array}$	$\begin{array}{r} 5.3 \\ 4.5 \\ \hline \end{array}$	$\begin{array}{r} 1.14 \\ 2.12 \\ \hline \end{array}$	$\begin{array}{r} 2.06 \\ 5.13 \\ \hline \end{array}$	$\begin{array}{r} 2.25 \\ 6.35 \\ \hline \end{array}$

- DAVE'S DISTINGUISHED DECIMAL SUBTRACTION!

$\begin{array}{r} 0.3 \\ -0.1 \\ \hline \end{array}$	$\begin{array}{r} 0.9 \\ -0.6 \\ \hline \end{array}$	$\begin{array}{r} 0.8 \\ -0.7 \\ \hline \end{array}$	$\begin{array}{r} 3.8 \\ -2.6 \\ \hline \end{array}$	$\begin{array}{r} 9.8 \\ -5.4 \\ \hline \end{array}$
$\begin{array}{r} 0.87 \\ -0.42 \\ \hline \end{array}$	$\begin{array}{r} 0.77 \\ -0.15 \\ \hline \end{array}$	$\begin{array}{r} 0.83 \\ -0.51 \\ \hline \end{array}$	$\begin{array}{r} 2.57 \\ -1.41 \\ \hline \end{array}$	$\begin{array}{r} 4.68 \\ -3.41 \\ \hline \end{array}$
$\begin{array}{r} 6.53 \\ -3.53 \\ \hline \end{array}$	$\begin{array}{r} 7.4 \\ -0.4 \\ \hline \end{array}$	$\begin{array}{r} 6.5 \\ -0.9 \\ \hline \end{array}$	$\begin{array}{r} 8.2 \\ -0.6 \\ \hline \end{array}$	$\begin{array}{r} 10.6 \\ -2.7 \\ \hline \end{array}$

SOME POINTED OBJECTS!

A	$0.2 + 0.1$	$\begin{array}{r} 0.14 + 0.26 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$	$\begin{array}{r} .1 \\ \hline \end{array}$	$\begin{array}{r} .6 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .96 \\ \hline \end{array}$
P	$0.2 - 0.1$	$\begin{array}{r} 0.4 + 0.2 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .1 \\ \hline \end{array}$	$\begin{array}{r} .78 \\ \hline \end{array}$	$\begin{array}{r} .98 \\ \hline \end{array}$		
N	$0.65 + 0.33$	$\begin{array}{r} 0.4 - 0.2 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .4 \\ \hline \end{array}$	$\begin{array}{r} .32 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$
L	$0.65 - 0.33$	$\begin{array}{r} 0.87 + 0.09 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .4 \\ \hline \end{array}$	$\begin{array}{r} .32 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$
		$\begin{array}{r} 0.87 - 0.09 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .4 \\ \hline \end{array}$	$\begin{array}{r} .32 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$	$\begin{array}{r} .2 \\ \hline \end{array}$
		$\begin{array}{r} 0.48 + 0.32 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .98 \\ \hline \end{array}$	$\begin{array}{r} .3 \\ \hline \end{array}$	$\begin{array}{r} .78 \\ \hline \end{array}$	$\begin{array}{r} .32 \\ \hline \end{array}$	

DAVE'S DECIMALS



$$\begin{array}{r} 0.23 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 0.72 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 0.63 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.91 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 0.82 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 0.16 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 0.76 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 0.99 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 0.49 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 0.53 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7.13 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4.21 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2.98 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3.68 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2.34 \\ \times 9 \\ \hline \end{array}$$

— WHAT DID THE DOG SAY WHEN IT SAT ON THE SANDPAPER?

X	4	.1	.02	.06	.9	8	.6	.3	.05
3	12	.3	.06	.18	2.7	24	1.8	.9	.15
.2	.8	.06	.04	.012	.18	1.6	12	.5	.7
.4	16	.04	.008	.024	3.6	32	24	.12	.02
.8	3.6	.08	.1	.048	.7	6.4	.5	.26	.04
.5	.4	.05	1	.03	4.5	4	.03	.15	.025
6	30	.6	12	.36	5.5	48	3.8	1.8	.3
2	1.2	.2	.4	.12	1.1	16	.8	.6	.1
.9	38	.09	1.8	54	8.1	7.2	5.4	.27	4.5

SHADE IN ALL THE MISTAKES TO FIND OUT!
(YOU SHOULD FIND 30 MISTAKES)



— TONNES OF TENS —

$8.04 \times 10 =$

$0.84 \times 10 =$

$8.914 \times 100 =$

$0.894 \times 100 =$

$0.8 \times 100 =$

$9.765 \times 1000 =$

$0.97 \times 1000 =$

$8.04 \div 10 =$

$804 \div 10 =$

$0.84 \div 10 =$

$79.1 \div 100 =$

$7901 \div 100 =$

$980.1 \div 1000 =$

$9088 \div 1000 =$

$0.7 \div 1000 =$

WHY WERE THE STUDENT AND THE WITCH SMILING?

LINE UP EACH SUM WITH ITS CORRECT SOLUTION TO FIND THE ANSWER!

5.6×100 $0.56 \times 10\ 000$ $560 \div 10$ $5.6 \div 1000$ 56×1000 0.0056×10 $56\ 000 \div 10\ 000$ $56 \div 100$ $0.56 \times 1000\ 000$ 31.2×1000 $3.12 \div 100$ $0.00312 \div 10$ $3.12 \times 100\ 000$ 0.0312×100 $3120 \div 1000\ 000$ $31200 \div 1000$ $0.312 \times 10\ 000$ $3120 \div 10$		<ul style="list-style-type: none"> ◆ 5.6 ◆ 0.0056 ◆ 560 (THIS ONE IS DONE FOR YOU!) ◆ 3.12 ◆ 312 ◆ 5600 ◆ 0.000312 ◆ 0.00312 ◆ 0.056 ◆ 31200 ◆ 3120 ◆ 56 ◆ 0.56 ◆ 0.0312 ◆ 31.2 ◆ 312000 ◆ 56000 ◆ 560000
--	--	---

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
												E						!

DID YOU?

NOW WRITE THESE NUMBERS USING WORDS.

560 _____

3124 _____

87.9 _____

7002.8 _____

DAVE'S DECIMAL ALL-SORTS

DO-DA-CRAZY-DECIMAL DUDES!



$\begin{array}{r} 2.06 \\ + 7.18 \\ \hline \end{array}$	$\begin{array}{r} 1.87 \\ + 0.59 \\ \hline \end{array}$	$\begin{array}{r} 9.58 \\ + 7.69 \\ \hline \end{array}$	$\begin{array}{r} 8.72 \\ - 3.14 \\ \hline \end{array}$	$\begin{array}{r} 16.85 \\ - 11.58 \\ \hline \end{array}$
---	---	---	---	---

$\begin{array}{r} 3.5 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 5.3 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4.2 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 2.4 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 1.6 \\ \times 5 \\ \hline \end{array}$
--	--	--	--	--

$4 \overline{) 8.48}$	$6 \overline{) 6.72}$	$8 \overline{) 10.56}$	$10 \overline{) 39.7}$	$12 \overline{) 26.472}$
-----------------------	-----------------------	------------------------	------------------------	--------------------------

$\begin{array}{r} 25.6 \\ - 17.4 \\ \hline \end{array}$	$\begin{array}{r} 43.8 \\ - 27.9 \\ \hline \end{array}$	$\begin{array}{r} 39.7 \\ - 32.8 \\ \hline \end{array}$	$\begin{array}{r} 93.25 \\ + 58.89 \\ \hline \end{array}$	$\begin{array}{r} 75.64 \\ + 38.36 \\ \hline \end{array}$
---	---	---	---	---

NOW DO THESE SUMS TO DISCOVER A FAMOUS DECIMAL YEAR IN N.Z.!

$\begin{array}{r} \boxed{Y} \ \$0.83 \\ + 0.67 \\ \hline \end{array}$	$\begin{array}{r} \boxed{V} \ \$1.38 \\ + 0.62 \\ \hline \end{array}$	$\begin{array}{r} \boxed{I} \ \$2.75 \\ - 1.35 \\ \hline \end{array}$	$\begin{array}{r} \boxed{X} \ \$3.41 \\ - 2.76 \\ \hline \end{array}$
$\begin{array}{r} \boxed{S} \ \$0.32 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} \boxed{T} \ \$1.25 \\ \times 4 \\ \hline \end{array}$	$7 \overline{) \$2.80}$	$6 \overline{) \$10.80}$
$\overline{1.8} \ \overline{1.4} \ \overline{1.8} \ \overline{.4} \ \overline{5} \ \overline{.4} \ \overline{.4} \ \overline{1.8}$	$\overline{1.6} \ \overline{1.4} \ \overline{.65} \ \overline{5} \ \overline{1.5}$	$\overline{1.6} \ \overline{.4} \ \overline{2} \ \overline{.4} \ \overline{1.8}$	

(WHY WAS IT SO IMPORTANT?)

DAVE'S DANGEROUS DECIMALS

DAVE SUGGESTS YOU USE A CALCULATOR



$$\begin{array}{r} 3619.57 \\ + 1248.68 \\ \hline \end{array}$$

$$\begin{array}{r} 3594.07 \\ + 1483.56 \\ \hline \end{array}$$

$$\begin{array}{r} 510.234 \\ + 667.981 \\ \hline \end{array}$$

$$\begin{array}{r} 148.675 \\ + 728.149 \\ \hline \end{array}$$

$$1959.63 + 812.54 + 70.26 + 3.19 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 42.65 \\ - 21.88 \\ \hline \end{array}$$

$$\begin{array}{r} 951.34 \\ - 240.25 \\ \hline \end{array}$$

$$\begin{array}{r} 73.589 \\ - 14.983 \\ \hline \end{array}$$

$$\begin{array}{r} 6.050 \\ - 1.123 \\ \hline \end{array}$$

$$1959.63 - 812.54 - 70.26 - 3.19 = \underline{\hspace{2cm}}$$

$$13 \overline{) 39.52}$$

$$20 \overline{) 86.420}$$

$$0.6 \overline{) 2.46}$$

$$1.5 \overline{) 607.65}$$

WHAT'S HAPPENED TO DAVE NOW?

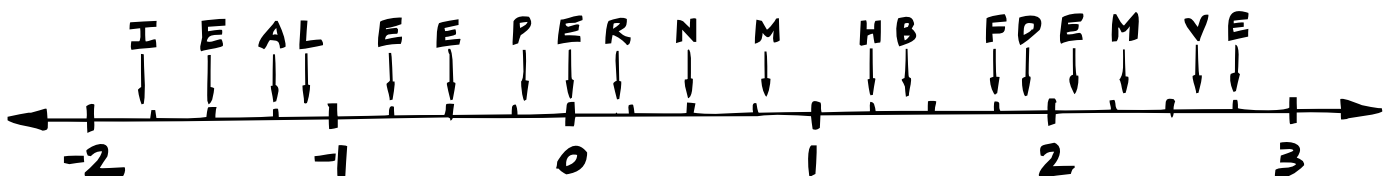


"

$$\begin{array}{r} \overline{1.25} \overline{2.75} \overline{-1} \overline{-0.2} \quad \overline{2.3} \overline{-0.75} \\ \overline{-1.8} \overline{2.6} \overline{0} \quad \overline{1.4} \overline{2.1} \overline{-1.5} \overline{0.5} \\ \hline \overline{1.75} \overline{0.2} \overline{-1.25} \overline{0.8} \overline{-0.5} \overline{1.9} \end{array}$$

"

-HERE DWELLS DASTARDLY
DAVE DECIMAL, DOBBED IN FOR
DAMAGING CLASSIFIED DECIMALS.



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$4 + 5 = \underline{\quad}$

$6 - 1 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

$3 \div 1 = \underline{\quad}$

$6 + 2 = \underline{\quad}$

$7 - 5 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

$8 \div 4 = \underline{\quad}$

$5 + 5 = \underline{\quad}$

$7 + 6 = \underline{\quad}$

TRENDY TABLES

$2 \times 1 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

$2 \times 3 = \underline{\quad}$

$2 \times \underline{\quad} = 10$

$2 \times \underline{\quad} = 14$

$2 \times \underline{\quad} = 12$

$2 \times 9 = \underline{\quad}$

$2 \times 10 = \underline{\quad}$

$2 \times \underline{\quad} = 26$

$2 \times \underline{\quad} = 24$



SOFT SUBSTITUTES

$a = 3, a + 5 = \underline{\quad}$

$b = 4, b + 12 = \underline{\quad}$

$c = 8, c - 1 = \underline{\quad}$

$d = 7, d - 3 = \underline{\quad}$

$e = 5, 4 + e = \underline{\quad}$

$f = 2, 9 - f = \underline{\quad}$

$g = 6, 3g = \underline{\quad}$

$h = 9, 4h = \underline{\quad}$

$i = 1, 10i = \underline{\quad}$

$j = 10, 5j = \underline{\quad}$

EXTRA EXAMPLES

$6 \text{ ADDED TO } 27 \text{ IS } \underline{\quad}$

$3 \text{ TIMES } 18 \text{ IS } \underline{\quad}$

$\$4.50 + \$6.25 = \underline{\quad}$

$\$5.80 + \$7.80 = \underline{\quad}$

$462 = 400 + \underline{\quad} + 2$

$500 + 20 + 6 = \underline{\quad}$

$210 + 123 = \underline{\quad}$

$157 + 225 = \underline{\quad}$

$240 - 130 = \underline{\quad}$

$188 - 66 = \underline{\quad}$

THE QUINTUS QUIZ

- FIND THE COST FOR...

2 PARENTS ONLY $\underline{\quad}$

1 PARENT & 1 CHILD $\underline{\quad}$

2 PARENTS & 2 CHILDREN $\underline{\quad}$

1 PARENT & 3 CHILDREN $\underline{\quad}$

4 PARENTS & 2 CHILDREN $\underline{\quad}$



NUMBER OF MISTAKES $\underline{\quad}$

MONEY MATH

$\$0.38$	$\$0.94$	$\$0.75$	$\$0.92$	$\$0.44$
$+0.12$	$+0.46$	$+0.15$	-0.07	-0.29
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

$\$2.76$	$\$1.79$	$\$4.36$	$\$7.10$	$\$8.26$
$+2.34$	$+0.81$	-2.41	-5.35	-1.96
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

— FIND THE COST OF :

- | | |
|------------------------------|------------------------------|
| 4 MATS AT \$7.25 EACH _____ | 2 COTS AT \$82.95 EACH _____ |
| 6 HATS AT \$15.40 EACH _____ | 900 DOTS AT 30¢ EACH _____ |
| 10 RATS AT \$1.65 EACH _____ | 8 LOTS AT \$5420 EACH _____ |
| 3 BATS AT \$98.90 EACH _____ | 5 POTS AT \$48.50 EACH _____ |

— HOW MUCH CHANGE FROM :

- \$10 WHEN YOU SPEND \$6.80 _____
- \$10 WHEN YOU BUY 2 PENS AT \$1.35 EACH _____
- \$20 WHEN YOU SPEND \$11.30 _____
- \$20 WHEN YOU BUY 5 DISCS AT \$2.75 EACH _____
- \$50 WHEN YOU BUY 3 BOOKS AT \$1.40, \$1.60, \$1.80, 3 COVERS AT 70¢ EACH AND 4 FELT TIPS AT \$3.20 EACH. _____

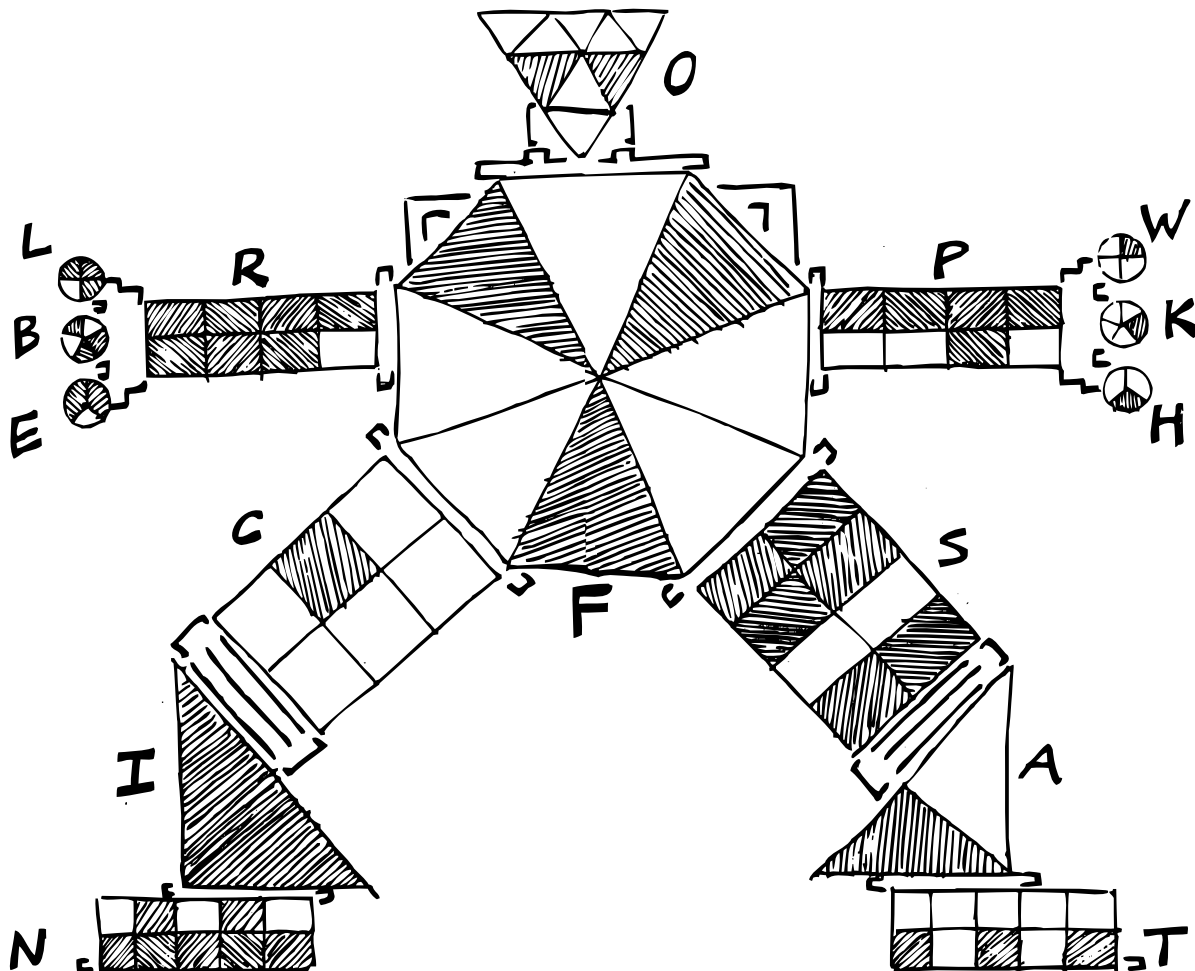
$\$28.76$	$\$85.74$	$\$64.48$	$\$75.34$	$\$43.70$
$+10.79$	$+23.46$	-16.88	-32.99	-29.90
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

ANSWER TO THE NEAREST DOLLAR

$\$3.20 + \$4.60 \approx$ _____ $\$7.35 + \$5.05 \approx$ _____
 $\$2.85 + \$1.20 \approx$ _____ $\$2.90 + \$2.80 \approx$ _____
 $\$9.60 - \$8.75 \approx$ _____ $\$6.25 - \$3.95 \approx$ _____
 $\$24.35 - \$12.50 \approx$ _____ $\$17.80 - \$9.20 \approx$ _____

FRACTION-MAN

How much is shaded? Write the letter from each body part above the corresponding fraction.



$$\frac{1}{2} \quad \frac{3}{8} \quad \frac{7}{8} \quad \frac{1}{2} \quad \frac{1}{6} \quad \frac{3}{10} \quad \frac{2}{9} \quad \frac{7}{10} \quad 1 \quad \frac{6}{8} \quad \frac{1}{2} \quad \frac{1}{6} \quad \frac{1}{3} \quad \frac{5}{8}$$

$$\frac{2}{9} \quad \frac{3}{8} \quad \frac{3}{8} \quad \frac{3}{10} \quad \frac{1}{3} \quad \frac{2}{3} \quad \frac{1}{4} \quad \frac{1}{3} \quad \frac{2}{9} \quad \frac{3}{4} \quad \frac{2}{3} \quad \frac{3}{5} \quad \frac{3}{4} \quad \frac{2}{9} \quad \frac{1}{6} \quad \frac{1}{5}$$



- FAMILIES OF FRACTIONS

FILL IN THE GAPS TO MAKE SOME EQUIVALENT FRACTIONS!

$$\frac{1}{3} = \frac{\quad}{6} \quad \frac{1}{4} = \frac{\quad}{12} \quad \frac{7}{10} = \frac{\quad}{20} \quad \frac{1}{5} = \frac{\quad}{15} \quad \frac{3}{4} = \frac{\quad}{40}$$

$$\frac{2}{3} = \frac{\quad}{9} \quad \frac{4}{5} = \frac{\quad}{20} \quad \frac{3}{8} = \frac{\quad}{40} \quad \frac{12}{16} = \frac{\quad}{4} \quad \frac{2}{8} = \frac{\quad}{4}$$

$$\frac{8}{12} = \frac{\quad}{3} \quad \frac{10}{16} = \frac{5}{\quad} \quad \frac{25}{30} = \frac{5}{\quad} \quad \frac{9}{18} = \frac{1}{\quad} \quad \frac{21}{30} = \frac{7}{\quad}$$

$$\frac{1}{2} = \frac{\quad}{6} = \frac{10}{\quad} = \frac{\quad}{24}$$

$$\frac{3}{4} = \frac{\quad}{12} = \frac{12}{\quad} = \frac{\quad}{20}$$

$$\frac{8}{10} = \frac{\quad}{5} = \frac{\quad}{20} = \frac{32}{\quad}$$

$$\frac{5}{8} = \frac{\quad}{16} = \frac{15}{\quad} = \frac{\quad}{40}$$

- NOW SIMPLIFY THESE FRACTIONS TO MAKE THEM AS SMALL AS YOU CAN!

$$\frac{6}{10} = \frac{\quad}{\quad} \quad \frac{14}{28} = \frac{\quad}{\quad} \quad \frac{20}{35} = \frac{\quad}{\quad} \quad \frac{21}{24} = \frac{\quad}{\quad} \quad \frac{12}{48} = \frac{\quad}{\quad}$$

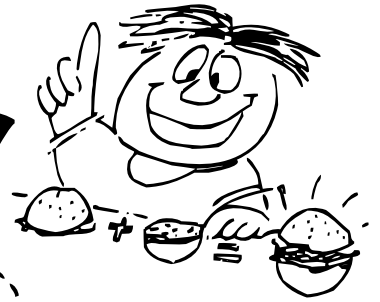
SHADE IN EACH BOX WHICH CONTAINS A FRACTION THAT IS EQUIVALENT TO THE FRACTION AT THE BOTTOM OF THAT COLUMN!



$\frac{10}{30}$	$\frac{20}{70}$	$\frac{9}{30}$	$\frac{10}{30}$	$\frac{10}{25}$	$\frac{15}{18}$	$\frac{7}{28}$	$\frac{15}{36}$	$\frac{20}{35}$	$\frac{21}{28}$	$\frac{21}{27}$
$\frac{7}{15}$	$\frac{8}{28}$	$\frac{30}{90}$	$\frac{8}{11}$	$\frac{22}{55}$	$\frac{25}{36}$	$\frac{2}{8}$	$\frac{2}{7}$	$\frac{12}{21}$	$\frac{18}{22}$	$\frac{14}{18}$
$\frac{5}{18}$	$\frac{14}{49}$	$\frac{9}{40}$	$\frac{5}{12}$	$\frac{14}{35}$	$\frac{30}{30}$	$\frac{10}{40}$	$\frac{21}{60}$	$\frac{28}{49}$	$\frac{30}{40}$	$\frac{35}{45}$
$\frac{8}{20}$	$\frac{10}{35}$	$\frac{21}{50}$	$\frac{1}{22}$	$\frac{18}{45}$	$\frac{25}{30}$	$\frac{5}{20}$	$\frac{9}{16}$	$\frac{16}{28}$	$\frac{9}{15}$	$\frac{6}{8}$
$\frac{3}{12}$	$\frac{1}{6}$	$\frac{16}{50}$	$\frac{7}{16}$	$\frac{4}{7}$	$\frac{30}{42}$	$\frac{4}{9}$	$\frac{4}{9}$	$\frac{6}{10}$	$\frac{15}{24}$	$\frac{21}{30}$
$\frac{2}{6}$	$\frac{4}{14}$	$\frac{18}{60}$	$\frac{8}{18}$	$\frac{4}{10}$	$\frac{20}{24}$	$\frac{11}{44}$	$\frac{3}{9}$	$\frac{8}{14}$	$\frac{9}{12}$	$\frac{28}{36}$
$\frac{7}{21}$	$\frac{10}{28}$	$\frac{6}{15}$	$\frac{9}{14}$	$\frac{20}{50}$	$\frac{30}{40}$	$\frac{4}{16}$	$\frac{20}{50}$	$\frac{24}{36}$	$\frac{18}{24}$	$\frac{14}{20}$
$\frac{5}{15}$	$\frac{5}{11}$	$\frac{5}{12}$	$\frac{1}{3}$	$\frac{12}{30}$	$\frac{10}{12}$	$\frac{6}{24}$	$\frac{12}{30}$	$\frac{12}{28}$	$\frac{15}{20}$	$\frac{42}{45}$
$\frac{4}{12}$	$\frac{4}{16}$	$\frac{10}{30}$	$\frac{1}{4}$	$\frac{16}{40}$	$\frac{20}{30}$	$\frac{3}{12}$	$\frac{14}{21}$	$\frac{5}{8}$	$\frac{24}{32}$	$\frac{28}{35}$
$\frac{6}{18}$	$\frac{6}{21}$	$\frac{12}{40}$	$\frac{2}{3}$	$\frac{6}{15}$	$\frac{15}{25}$	$\frac{9}{36}$	$\frac{6}{24}$	$\frac{8}{15}$	$\frac{6}{8}$	$\frac{8}{10}$

$\frac{1}{3}$	$\frac{2}{7}$	$\frac{3}{10}$	$\frac{6}{11}$	$\frac{2}{5}$	$\frac{5}{6}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{4}{7}$	$\frac{3}{4}$	$\frac{7}{9}$
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HALVE IT... ...AND YOU HAVE IT!



$$\frac{1}{2} + \frac{1}{2} =$$

$$\frac{2}{3} - \frac{1}{3} =$$

$$\frac{1}{4} + \frac{2}{4} =$$

$$\frac{4}{5} - \frac{2}{5} =$$

NOW ARE YOU READY FOR THESE..?

$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$

$$\frac{3}{7} + \frac{3}{7} = \frac{6}{7}$$

$$\frac{2}{7} + \frac{4}{7} = \frac{6}{7}$$

$$\frac{4}{9} + \frac{4}{9} = \frac{8}{9}$$

$$\frac{4}{11} + \frac{6}{11} = \frac{10}{11}$$

$$\frac{13}{15} - \frac{6}{15} = \frac{7}{15}$$

$$\frac{6}{11} - \frac{2}{11} = \frac{4}{11}$$

$$\frac{10}{13} - \frac{5}{13} = \frac{5}{13}$$

$$\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$

$$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$

$$\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$$

$$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$$

$$\frac{4}{6} - \frac{1}{6} = \frac{3}{6}$$

$$\frac{6}{10} - \frac{3}{10} = \frac{3}{10}$$

$$\frac{6}{13} + \frac{4}{13} = \frac{10}{13}$$

$$\frac{8}{13} + \frac{5}{13} = \frac{13}{13}$$

$$\frac{9}{13} - \frac{9}{13} = 0$$

WHO'S PART OF OUR TEAM?

$$\frac{2}{4} \quad \frac{4}{7} \quad \frac{1}{7} \quad \frac{4}{7} \quad \frac{5}{9} \quad \frac{6}{9} \quad \frac{3}{5} \quad \frac{8}{9} \quad \frac{5}{9} \quad \frac{4}{5} \quad \frac{4}{9} \quad !$$

$$F = \frac{4}{5} - \frac{1}{5}$$

$$T = \frac{1}{4} + \frac{1}{4}$$

$$C = \frac{2}{5} + \frac{2}{5}$$

$$K = \frac{7}{9} - \frac{3}{9}$$

$$E = \frac{6}{7} - \frac{5}{7}$$

$$L = \frac{2}{9} + \frac{4}{9}$$

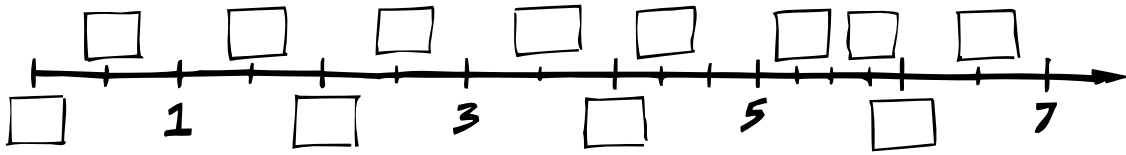
$$H = \frac{3}{7} + \frac{1}{7}$$

$$B = \frac{5}{9} + \frac{3}{9}$$

$$A = \frac{8}{9} - \frac{3}{9}$$

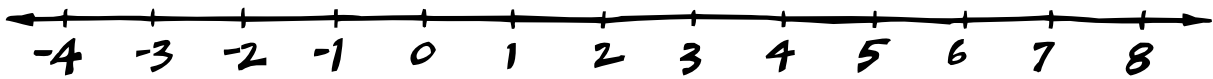
"COME FIND MY PLACE!"

START BY WRITING THE MISSING NUMBERS AND FRACTIONS IN THE BOXES ON THE LINE!

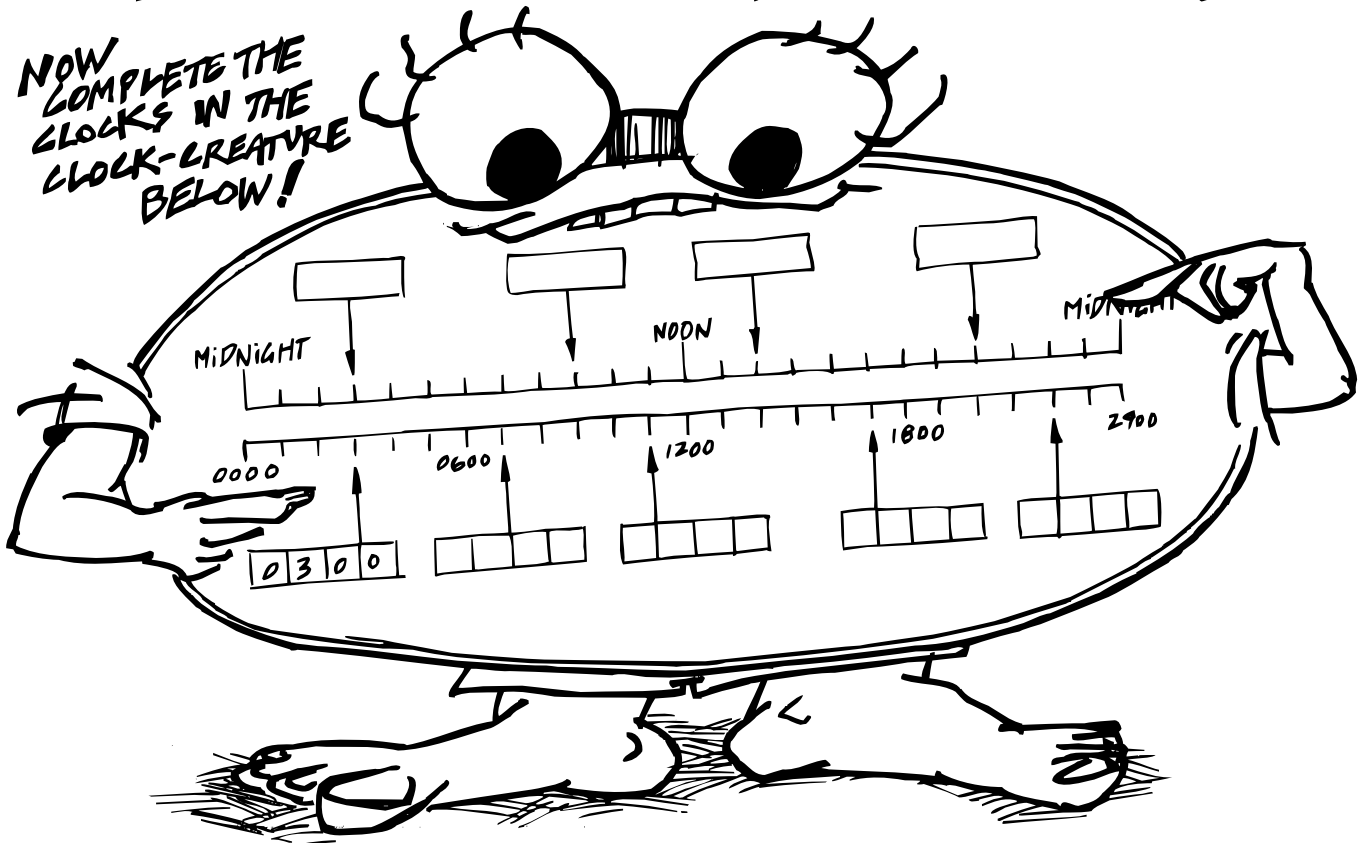


HERE ARE SOME PAIRS OF LETTERS AND NUMBERS. WRITE EACH LETTER ABOVE THE NUMBER LINE AT ITS CORRECT POSITION AND A SPECIAL MESSAGE WILL APPEAR!

- | | | | |
|-------------------|-------------------|------------------|------------------|
| A 5 | M $-2\frac{1}{2}$ | U $\frac{1}{2}$ | C $4\frac{1}{2}$ |
| S $2\frac{1}{2}$ | E $7\frac{1}{10}$ | L $6\frac{5}{8}$ | S 1 |
| M $3\frac{1}{4}$ | S $5\frac{2}{3}$ | E $1\frac{1}{4}$ | I $2\frac{1}{9}$ |
| O $\frac{1}{15}$ | T 6 | Y -2 | H $-\frac{1}{2}$ |
| Y $3\frac{7}{10}$ | | | |



NOW COMPLETE THE CLOCKS IN THE CLOCK-CREATURE BELOW!



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

- 6 + 8 = _____
- 8 - 6 = _____
- 5 x 3 = _____
- 6 ÷ 2 = _____
- 7 + 4 = _____
- 5 - 5 = _____
- 6 x 6 = _____
- 8 ÷ 8 = _____
- 7 + 7 = _____
- 5 + 6 = _____



FANTASTIC FRACTIONS

- $\frac{1}{2}$ OF 2 = _____
- $\frac{1}{2}$ OF 6 = _____
- $\frac{1}{2}$ OF 14 = _____
- $\frac{1}{2}$ OF 20 = _____
- $\frac{1}{2} \times \frac{1}{2}$ = _____
- $\frac{3}{5} \times \frac{4}{7}$ = _____
- $\frac{1}{2} + \frac{1}{2}$ = _____
- $\frac{2}{5} + \frac{1}{5}$ = _____
- $\frac{1}{2} - \frac{1}{2}$ = _____
- $\frac{1}{3} - \frac{1}{3}$ = _____

MIGHTY METRICS

- 60m + 50m = _____
- 48cm + 16cm = _____
- 87m - 47m = _____
- 54mm - 26mm = _____
- _____ cm = 1m
- _____ cm = 2m
- 1000 ml = _____ l
- 3000ml = _____ l
- 1234 g = _____ kg
- _____ g = 4.321 kg

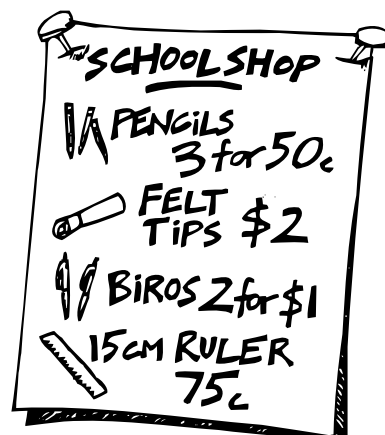
EXTRA EXAMPLES

- 7 DAYS = _____ WEEK
- _____ SECONDS IN 1 MINUTE
- 0.6 + 0.5 = _____
- 1.8 - 0.9 = _____
- 0.2 x 4 = _____
- 0.4 ÷ 2 = _____
- 1, 2, 4, _____, 16
- 238 + 832 = _____
- 541 - 268 = _____
- 2² = _____

THE QUINTUS QUIZ

- FIND THE COST OF...

- 6 PENCILS _____
- 3 FELT TIPS _____
- 2 RULERS _____
- 3 PENCILS & 2 BIROS _____
- 3 FELT TIPS, 2 BIROS,
& 2 RULERS _____



NUMBER OF MISTAKES _____

AN INTRODUCTION TO DEGREES

- MEASURE THE ANGLES ON THIS PAGE CAREFULLY AND WRITE THE LETTERS ABOVE THE CORRECT ANSWER IN THE MESSAGE BELOW!

80 10 220 260 260 220

340 5 60 10 220 150 30

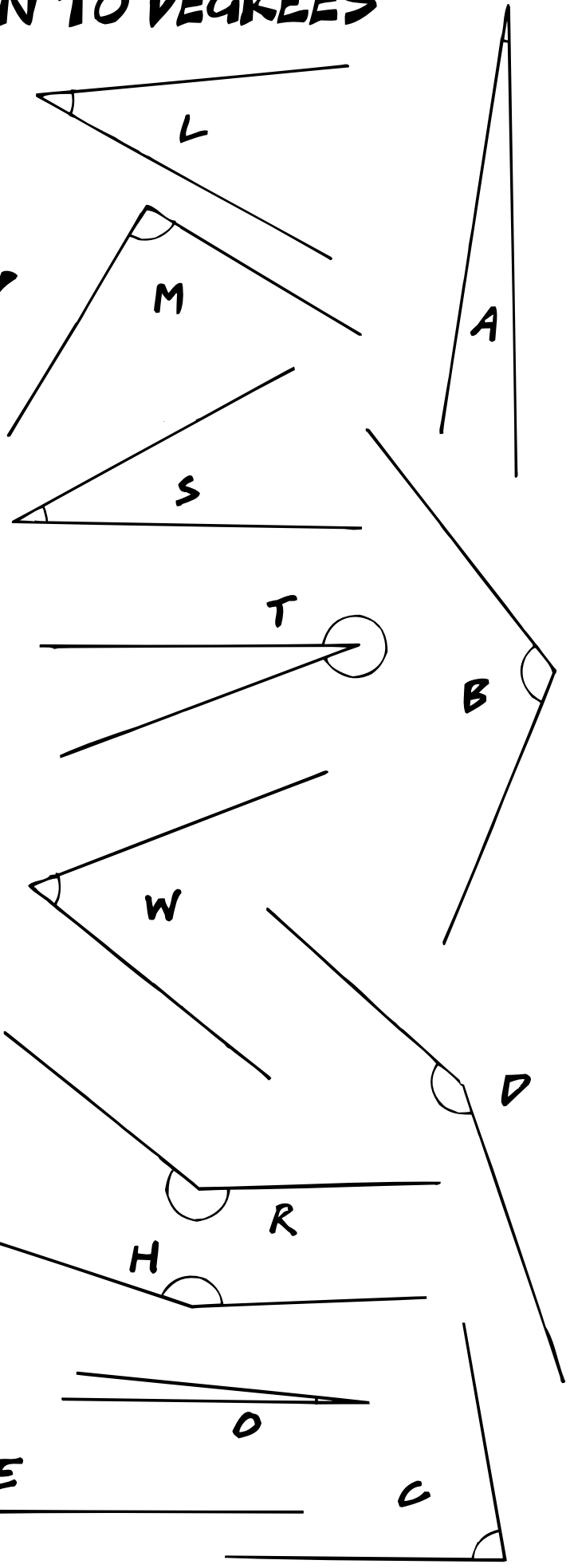
10

120 10 90 10

120 30 80 90 30 80

35 35 120 95 160 150

40 150 5 220 120 260

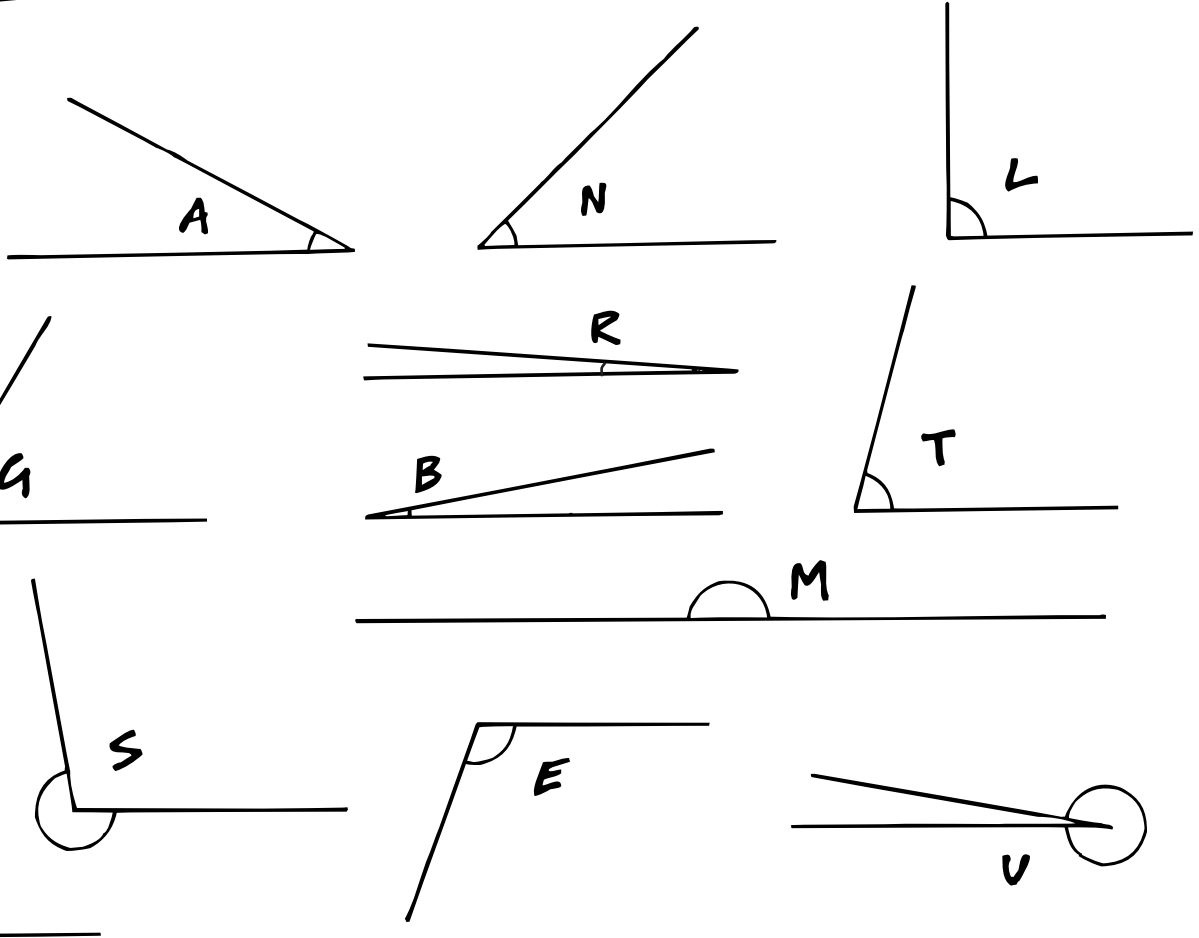


P

E

C

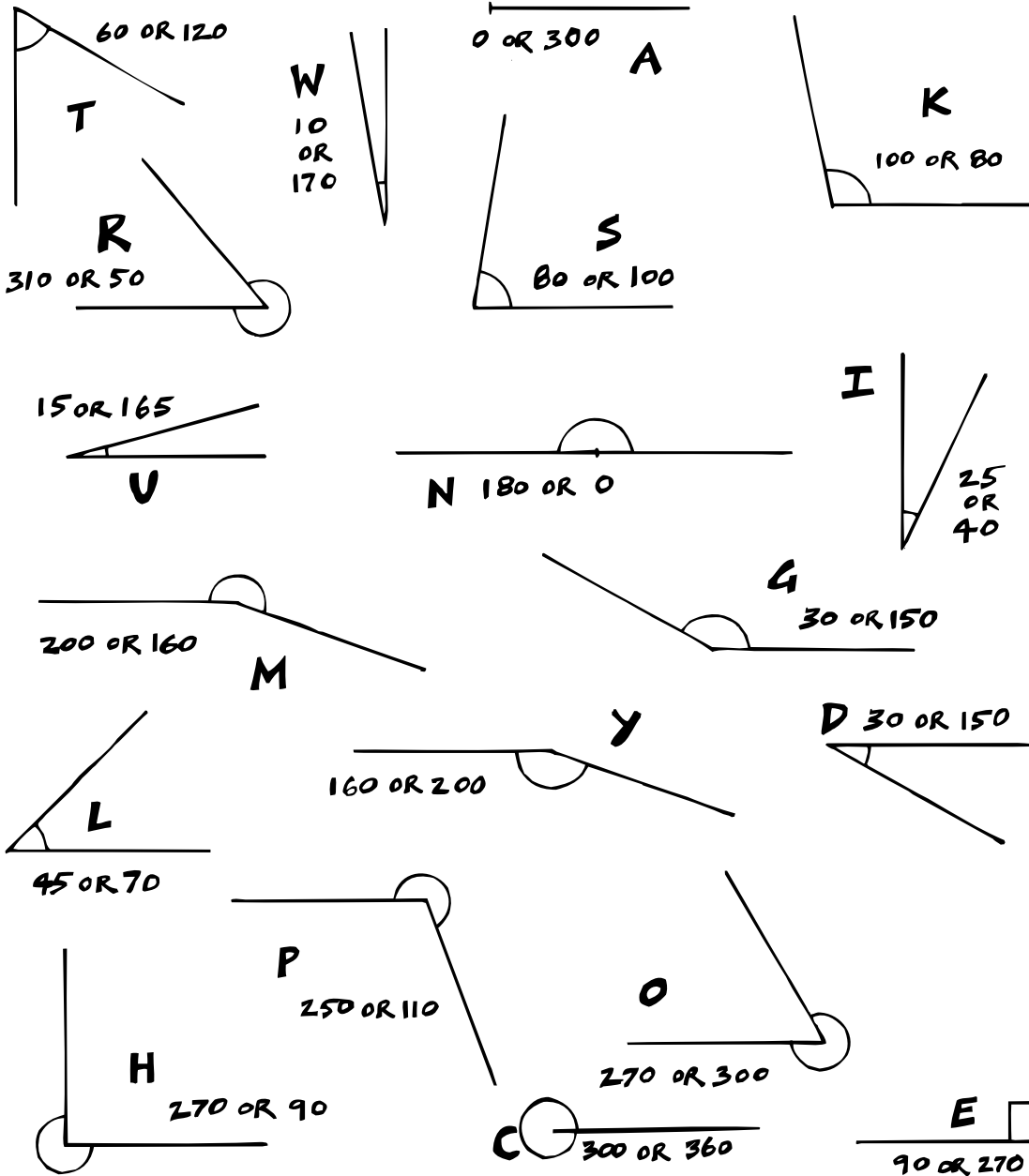
YOUR MISSION, SHOULD YOU CHOOSE TO ACCEPT IT, IS TO MEASURE ALL THE ANGLES AND WRITE THE LETTERS ABOVE THE CORRECT ANSWER IN THE CODE! (DON'T WORRY, THIS PAGE WON'T SELF-DESTRUCT!)



$\overline{180}$ $\overline{110}$ $\overline{110}$ $\overline{75}$ $\overline{75}$ $\overline{50}$ $\overline{110}$
 $\overline{30}$ $\overline{45}$ $\overline{60}$ $\overline{90}$ $\overline{110}$ $\overline{10}$ $\overline{350}$ $\overline{260}$ $\overline{75}$ $\overline{110}$ $\overline{5}$ $\overline{260}$!



- CHOOSE THE ANGLE SIZE THAT IS THE BEST ESTIMATE OF THE ANGLE AND MATCH UP THE LETTER OF THE ANGLE WITH THE ANSWERS IN THE PUZZLE!



“

200 0 60 270 90 200 0 60 25 360 25 0 180 80 100 180 300 10

0 45 45 60 270 90 0 180 150 45 90 80 270 300 10

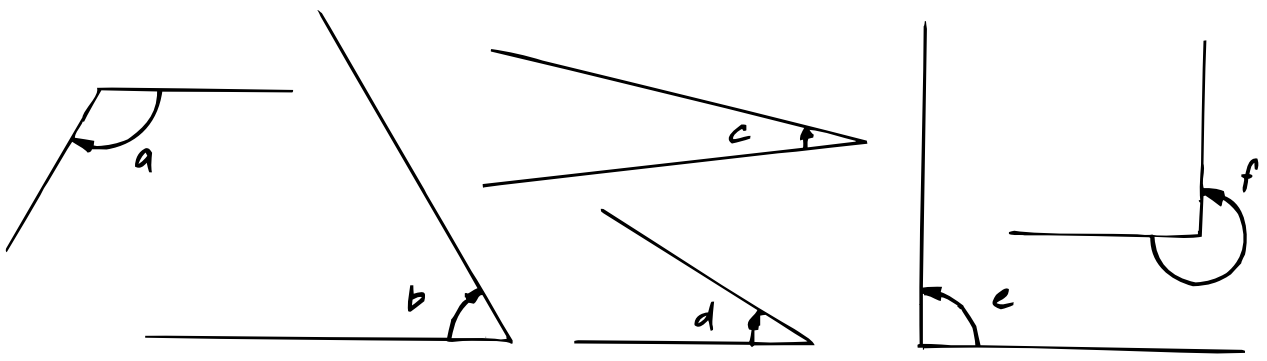
30 300 160 300 15 200 90 0 80 15 310 90 15 250 ?”

MEASURING ANGLES

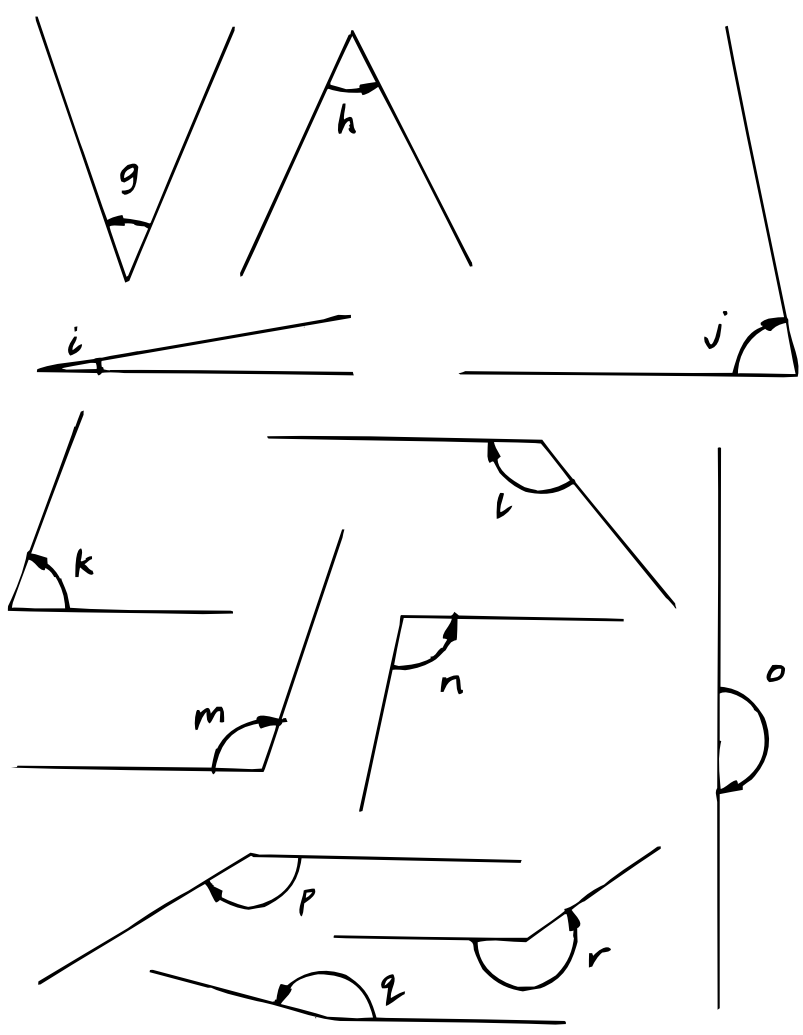
ESTIMATE MEANS _____
 WE MEASURE ANGLE SIZE WITH A _____

1 ESTIMATE THE SIZE OF EACH ANGLE AND WRITE YOUR GUESSES IN THE TABLE.

2 ASK YOUR TEACHER FOR A _____ THEN MEASURE EACH ANGLE CAREFULLY! RECORD EACH MEASURE IN THE TABLE.



	ESTIMATE	MEASURE
a		
b		
c		
d		
e		
f		
g		
h		
i		
j		
k		
l		
m		
n		
o		
p		
q		
r		



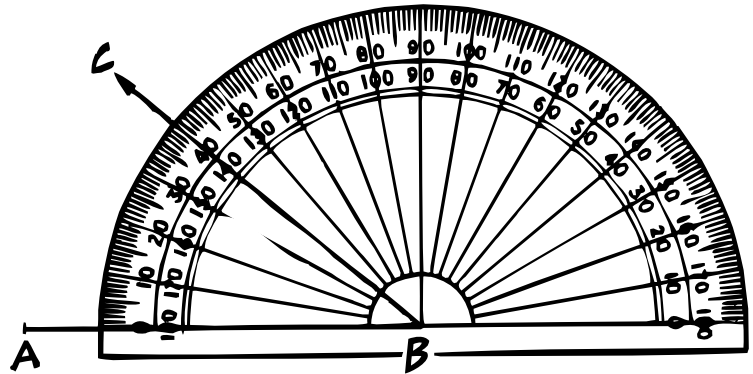
DRAWING ANGLES... IS LIKE, EXCELLENT FUN!

YOU HAVE LEARNT TO USE A PROTRACTOR TO MEASURE ANGLES. IT CAN ALSO BE USED TO HELP YOU DRAW ANGLES.

1 PLACE YOUR PROTRACTOR ON AB AS SHOWN (CENTRE ON B)

2 COUNT FROM 0° CLOCKWISE TO 40°, & MARK IT.

3 REMOVE YOUR PROTRACTOR. DRAW THE RAY BC.



THEN $\angle ABC = 40^\circ$. NOW MAKE 3 EXACT COPIES.

A ————— B A ————— B A ————— B
 AT D DRAW AN ANGLE OF 20° AT E DRAW AN ANGLE OF 70° AT G AN ANGLE OF 90°

C ————— D E ————— F G ————— H
 AT J DRAW AN ANGLE OF 45° AT K AN ANGLE OF 100° AT M AN ANGLE OF 150°

I ————— J K ————— L M ————— N

DRAWING TRIANGLES

AT T DRAW AN ANGLE OF 30°,
 AT Y DRAW AN ANGLE OF 50°,
 JOIN AT R TO MAKE $\triangle TRY$.

AT U DRAW AN ANGLE OF 120°,
 AT V DRAW AN ANGLE OF 10°.
 JOIN AT L TO MAKE $\triangle LUV$.

54 T ————— Y

U ————— V

ARE WE THE RIGHT TYPES?!



DRAW 3 OBTUSE ANGLES

DRAW 2 STRAIGHT ANGLES

DRAW 3 REFLEX ANGLES

DRAW 2 ACUTE ANGLES

DRAW 3 RIGHT ANGLES

NOW FILL IN THE MISSING WORD BY IDENTIFYING THE ANGLES BELOW!
 "SIMPLY _____"

THESE ARE R _____

THESE ARE A _____

THESE ARE O _____

THESE ARE R _____

THESE ARE S _____

<p>WHICH ARE ACUTE?</p>	<p>WHICH ARE REFLEX?</p>	<p>WHICH ARE OBTUSE?</p>	<p>WHICH ARE RIGHT?</p>
-------------------------	--------------------------	--------------------------	-------------------------

WHIZZ-KIDS WORKSHEET!



NIFTY NUMBERS

$$\begin{array}{ll}
 5+10 = \underline{\quad} & 14+8 = \underline{\quad} \\
 18-9 = \underline{\quad} & 19-6 = \underline{\quad} \\
 15-12 = \underline{\quad} & 15+12 = \underline{\quad} \\
 37+12 = \underline{\quad} & 48 \div 4 = \underline{\quad} \\
 2 \times 11 = \underline{\quad} & 32-8 = \underline{\quad} \\
 25+8 = \underline{\quad} & 54 \div 6 = \underline{\quad} \\
 6 \times 40 = \underline{\quad} & 22 \times 2 = \underline{\quad} \\
 15 \times 7 = \underline{\quad} & 15 \times 3 = \underline{\quad} \\
 48 \div 8 = \underline{\quad} & 9 \times 9 = \underline{\quad} \\
 15 \div 5 = \underline{\quad} & 12 \times 12 = \underline{\quad}
 \end{array}$$

EASY EQUATIONS

$$\begin{array}{l}
 5 + \underline{\quad} = 9 \\
 14 - \underline{\quad} = 12 \\
 15 \times \underline{\quad} = 45 \\
 \underline{\quad} \times 6 = 36 \\
 \underline{\quad} + 8 = 15 \\
 \underline{\quad} - 12 = 16 \\
 4 + \underline{\quad} = 16 + 2 \\
 8 + \underline{\quad} = 15 - 3 \\
 12 - \underline{\quad} = 8 + 2 \\
 2 \times 10 = \underline{\quad} \times 5
 \end{array}$$

CALENDAR COLLECTIONS

HOW MANY DAYS IN MAY?

HOW MANY MONDAYS IN FEBRUARY?

WHAT DAY WAS 31ST JANUARY?

HOW MANY SCHOOL DAYS IN JUNE?

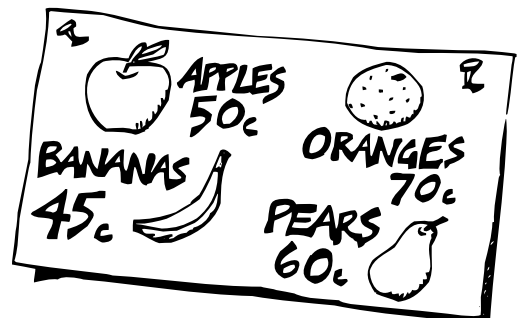
WHAT DATE IS THE LAST FRIDAY
IN MAY? _____

HOW MANY DAYS IN OCTOBER &
NOVEMBER? _____

HOW MANY DAYS TO THE NEXT
HOLIDAY? _____

HOW MANY DAYS IN A YEAR?

MONEY MIXTURES



- FIND THE COST OF:

2 APPLES _____

3 ORANGES _____

3 BANANAS AND A PEAR

- WHAT IS THE CHANGE FROM
\$10 IF I BUY:

10 APPLES _____

12 ORANGES AND A PEAR

10 BANANAS AND AN APPLE

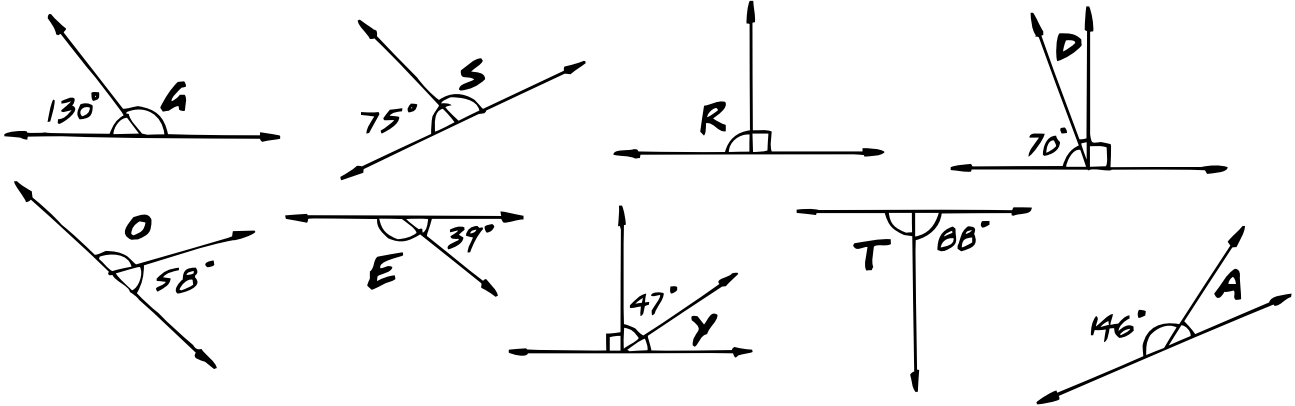
NUMBER OF MISTAKES _____

ANIMAL ANGLES

FIND THE UNKNOWN ANGLES TO SOLVE THE RIDDLES!
DO NOT MEASURE

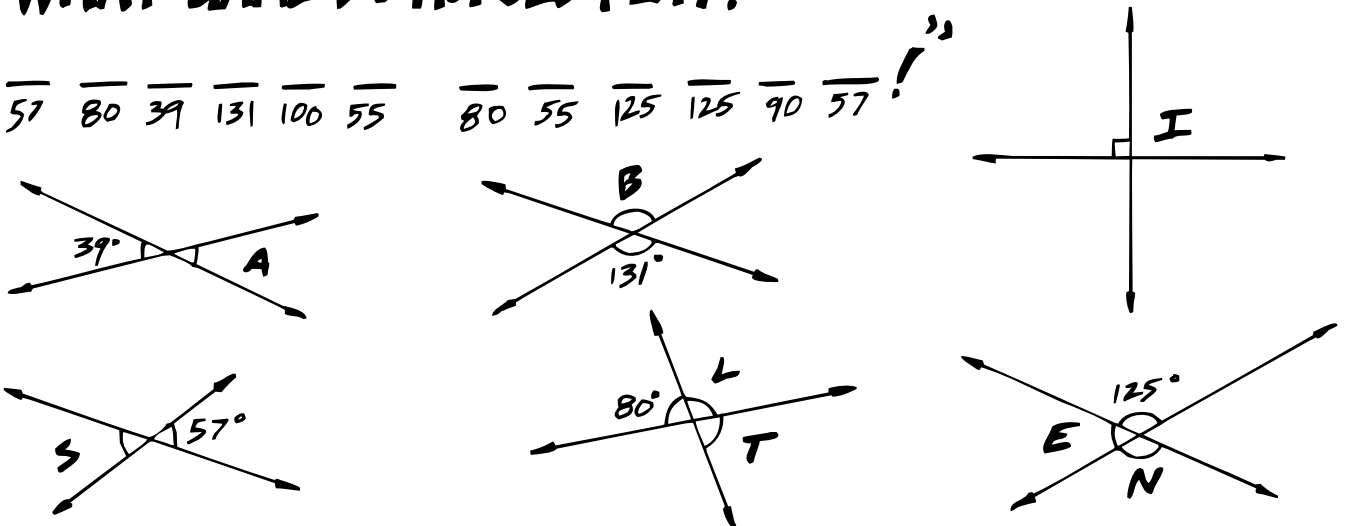
HOW DO YOU MAKE A BEAR RUN?

"
105 34 43 90 141 34 20 43 92 141 20 20 43 50 122!"



WHAT GAME DO HORSES PLAY?

"
57 80 39 131 100 55 80 55 125 125 90 57!"



WHAT IS GREY, WEIGHS A TONNE, & HAS TWO WHEELS?

"
40 98 140 60 28 50 50 28 40 42 60 69 57 69 16 113!"

B IF $\angle 1 = 42^\circ$ THEN $\angle 3 =$ _____

C IF $\angle 5 = 111^\circ$ THEN $\angle 6 =$ _____

H IF $\angle 10 = 140^\circ$ THEN $\angle 12 =$ _____

E IF $\angle 3 = 67^\circ$ THEN $\angle 4 =$ _____

K IF $\angle 7 = 98^\circ$ THEN $\angle 5 =$ _____

N IF $\angle 12 = 152^\circ$ THEN $\angle 9 =$ _____

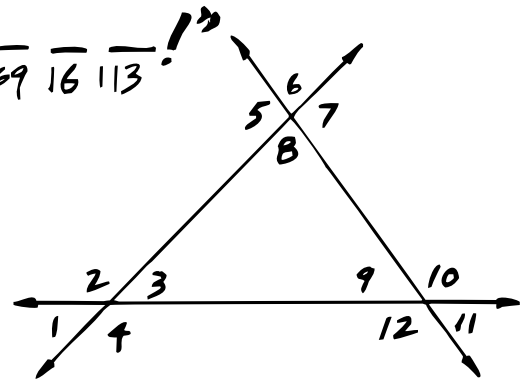
L IF $\angle 2 = 164^\circ$ THEN $\angle 1 =$ _____

Y IF $\angle 11 = 57^\circ$ THEN $\angle 4 =$ _____

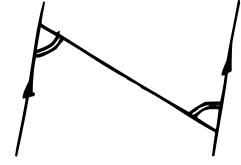
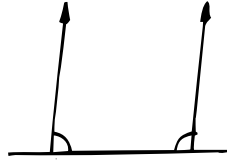
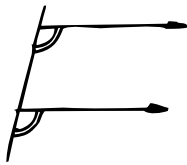
F IF $\angle 3 = 60^\circ$ & $\angle 8 = 60^\circ$ THEN $\angle 9 =$ _____

O IF $\angle 8 = 80^\circ$ & $\angle 9 = 50^\circ$ THEN $\angle 3 =$ _____

A IF $\angle 9 = 100^\circ$ & $\angle 3 = 40^\circ$ THEN $\angle 8 =$ _____



PARA-REAL-FUN ANGLES & LINES

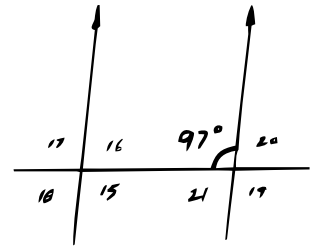
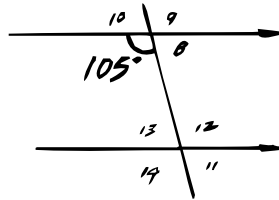
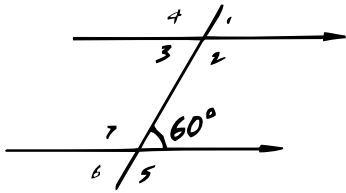


C _____ ANGLES
ARE EQUAL

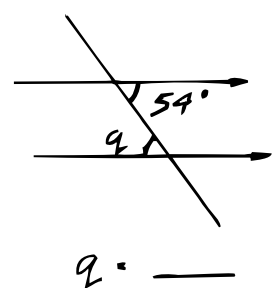
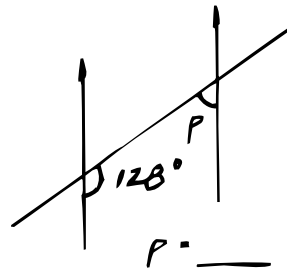
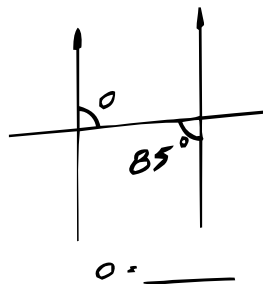
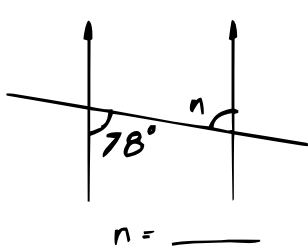
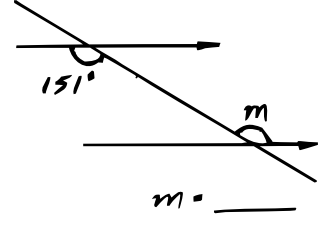
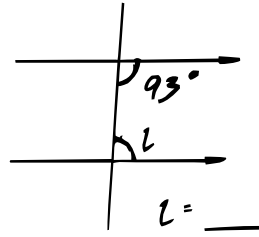
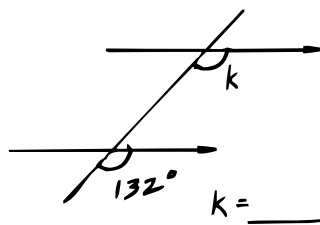
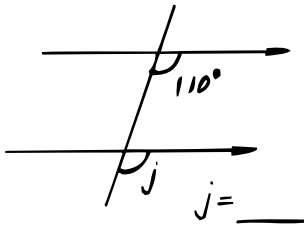
I _____ ANGLES
SUM TO 180°

A _____ ANGLES
ARE EQUAL

WRITE IN ALL THE ANGLE MEASURES!



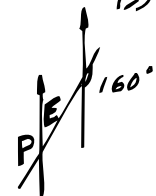
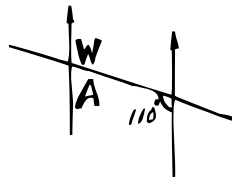
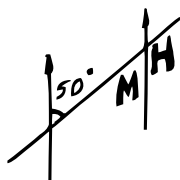
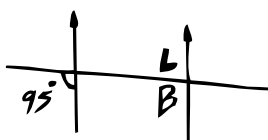
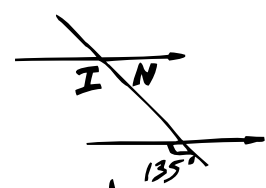
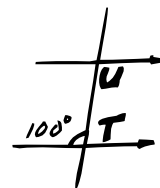
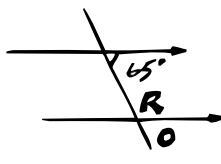
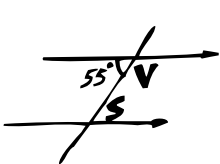
FIND THE UNKNOWN ANGLES



FUN FACT!

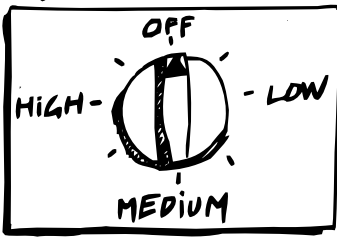
80° 110° 65° 85° 135° 45° 20° 55° 80° 130° 70° 80° 45° 20° 125° 20° 115°

50° 20° 20° 80° 50° 100° 55° 80° 95° 20° 160° 70° 115° 70° 85° 85° 20° 85°



ROTATION

STOVE



WHAT TEMPERATURE WOULD YOUR STOVE BE SET TO WITH THESE ROTATIONS?
START AT 'OFF' EACH TIME

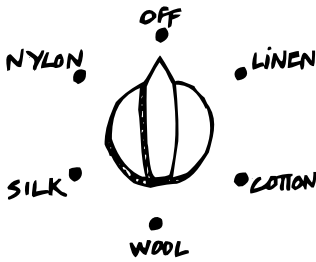
90° CLOCKWISE _____

180° ANTICLOCKWISE _____

270° CLOCKWISE _____

360° CLOCKWISE _____

IRON



HOW MANY DEGREES TO SET YOUR IRON FROM:

OFF TO WOOL _____

OFF TO LINEN _____

COTTON TO SILK _____

NYLON TO LINEN _____

NAME THE TOWNS. THE ARROW IN THE MIDDLE OF PROTRACTARUA IS WHERE YOU SHOULD START MEASURING EACH TIME!

15° CLOCKWISE _____

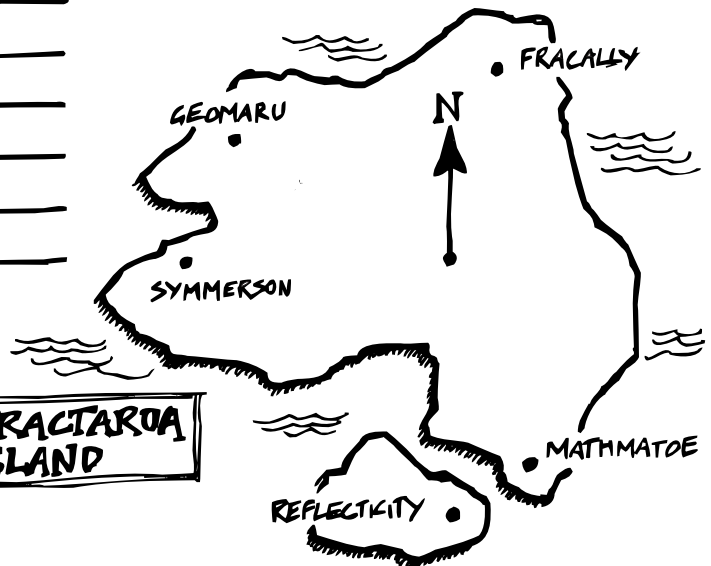
180° CLOCKWISE _____

270° CLOCKWISE _____

30° ANTICLOCKWISE _____

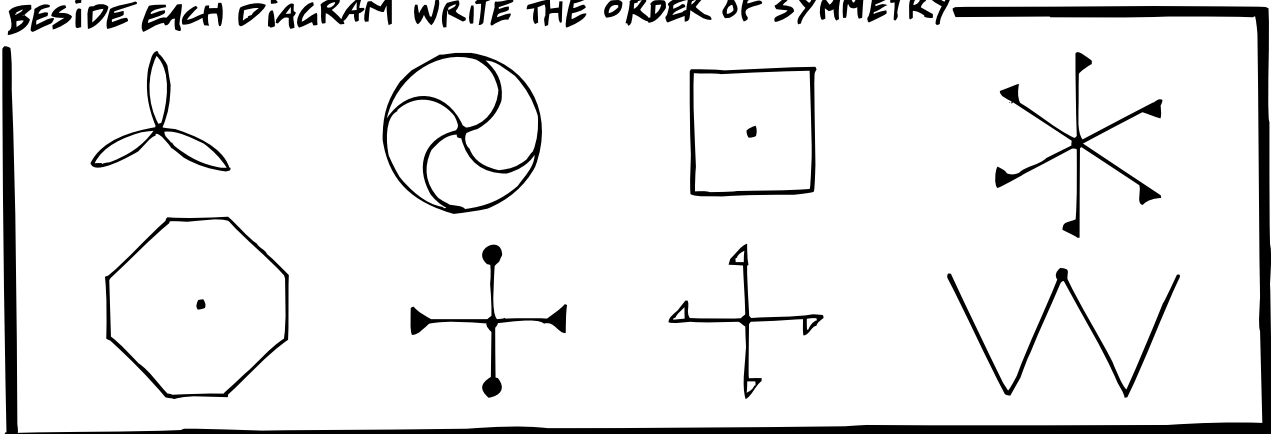
160° CLOCKWISE _____

90° ANTICLOCKWISE _____

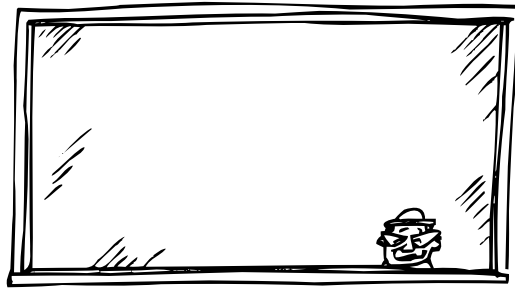


ROTATIONAL SYMMETRY

BESIDE EACH DIAGRAM WRITE THE ORDER OF SYMMETRY

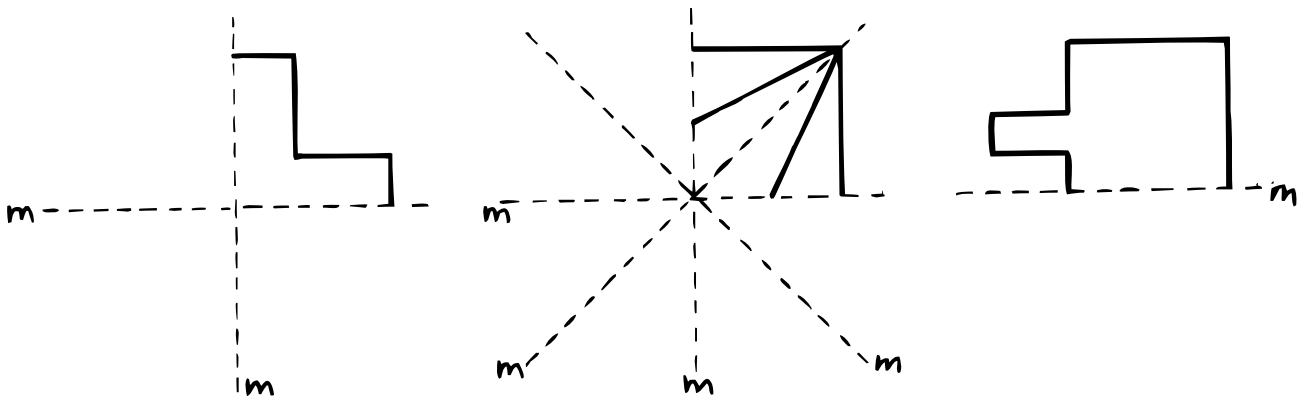


REFLECTION - YOU'LL NEED A MIRROR FOR THIS PAGE!

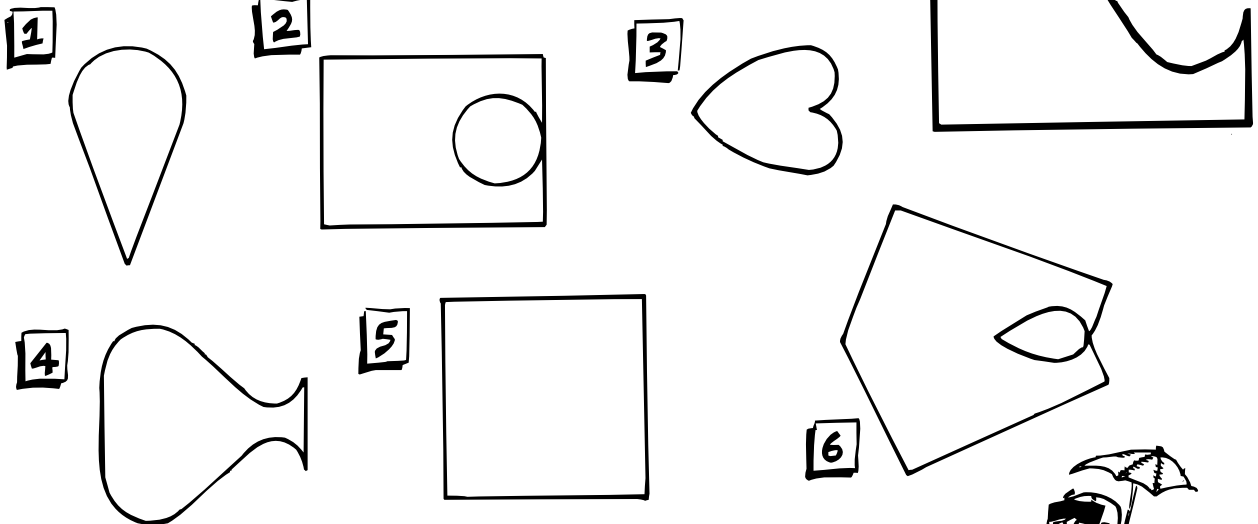


WHAT WOULD THE WINDOW LOOK LIKE FROM THE OTHER SIDE?

COMPLETE THE SHAPES



NOW USE A MIRROR ON THIS SHAPE TO MAKE THE SHAPES BELOW



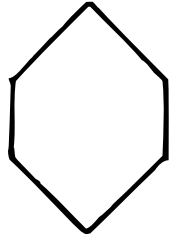
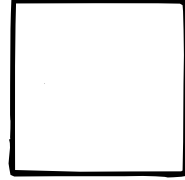
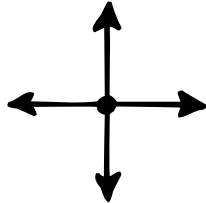
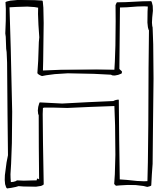
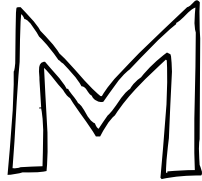
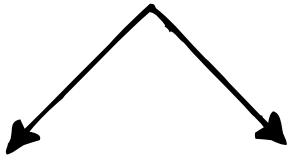
COMPLETE THE REFLECTION!



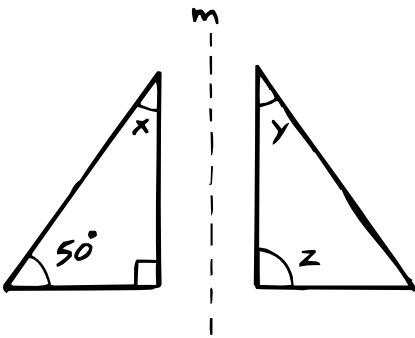
A MOW A 21 MOW A 21 MOW A

SYMMETRY

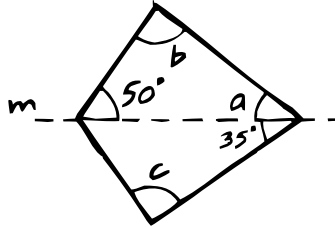
MARK IN THE LINES OF SYMMETRY!



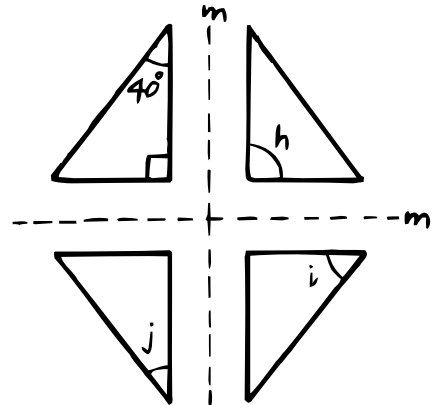
CALCULATE THE MISSING ANGLES



x = _____
 y = _____
 z = _____

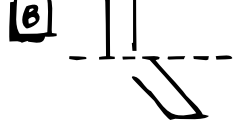
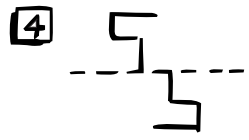
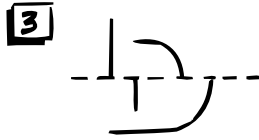
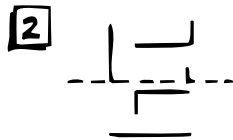
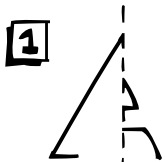


a = _____
 b = _____
 c = _____



h = _____
 i = _____
 j = _____

COMPLETE THE FIGURES AROUND EACH LINE OF SYMMETRY TO ANSWER THE CODE!



1 2 3 4
 S R G S
 2 8 4 5 6 1 2 6 3
 E R Z N E .
 6 2 2 7

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$17 + 19 = \underline{\quad}$ $20 + 5 = \underline{\quad}$
 $13 + 15 = \underline{\quad}$ $14 \times 9 = \underline{\quad}$
 $20 - 19 = \underline{\quad}$ $18 + 6 = \underline{\quad}$
 $47 + 9 = \underline{\quad}$ $27 - 15 = \underline{\quad}$
 $7 + 45 = \underline{\quad}$ $3 \times 30 = \underline{\quad}$
 $24 \times 5 = \underline{\quad}$ $39 \div 3 = \underline{\quad}$
 $8 \times 15 = \underline{\quad}$ $12 + 29 = \underline{\quad}$
 $42 \div 6 = \underline{\quad}$ $16 \times 2 = \underline{\quad}$
 $10 \times 30 = \underline{\quad}$ $46 \div 2 = \underline{\quad}$
 $28 - 17 = \underline{\quad}$ $250 - 50 = \underline{\quad}$

WORDY WHIMS

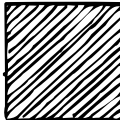
SUBTRACT 9 FROM 12 _____
 SHARE \$30 BETWEEN 6 _____
 WRITE TWO THOUSAND _____
 24 SUBTRACT 15 _____
 TOTAL OF 9, 4, AND 8 _____
 4 FIVES _____
 8 MORE THAN 7 _____
 DIFFERENCE BETWEEN 9 & 12 _____
 HALF OF 60 _____
 AT NOON IT'S _____ O'CLOCK

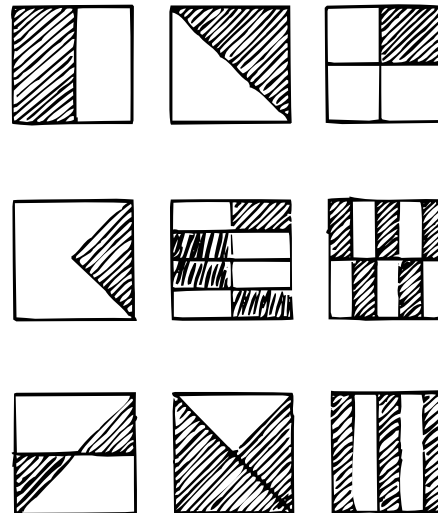
DARTS - FIND THE SCORES FOR EACH PERSON!

NAME	SCORES	TOTAL
HINE	5, 4, 20	
MARY	9, 9, 9	
JAMES	DOUBLE 6, 20, 20	
MIKE	TRIPLE 12, 18, 4	
ESTHER	DOUBLE 6, TRIPLE 4, 3	
LYNDA	DOUBLE 17, 15, 10	
CRAIG	8, 11, 14	
TALA	19, DOUBLE 3, 6	

WHO SCORED THE HIGHEST?

RELATIVE RELATIONS

IF  = 20, FIND THE VALUES OF...



MAGIC

6	1	8
7	5	3
2	9	4

EACH ROW ADDS UP TO _____

EACH COLUMN ADDS UP TO _____

EACH DIAGONAL ADDS UP TO _____

NUMBER OF MISTAKES _____



PAWKY PERCENTAGE PAGE

$$\frac{21}{100} = _ \%$$

$$\frac{37}{100} = _ \%$$

$$\frac{43}{100} = _ \%$$

$$\frac{59}{100} = _ \%$$

$$\frac{94}{100} = _ \%$$

$$\frac{65}{100} = _ \%$$

$$\frac{36}{100} = _ \%$$

$$\frac{15}{100} = _ \%$$

$$\frac{1}{10} = \frac{_}{100} = _ \%$$

$$\frac{9}{10} = \frac{_}{100} = _ \%$$

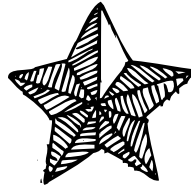
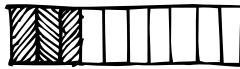
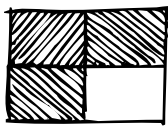
$$\frac{3}{25} = \frac{_}{100} = _ \%$$

$$\frac{3}{20} = \frac{_}{100} = _ \%$$

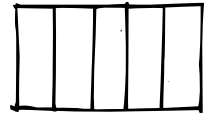
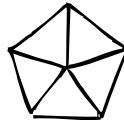
$$\frac{9}{20} = \frac{_}{100} = _ \%$$

$$\frac{3}{50} = \frac{_}{100} = _ \%$$

WHAT PERCENTAGE IS SHADED?



SHADE IN THE GIVEN PERCENT



33 $\frac{1}{3}$ %

70%

40%

10%

80%

PERCY PIG PERCENTAGE PUZZLES!

HOW DO YOU KNOW WHEN YOU'RE AT PERCY'S?

9 95 38 28 65 84 94 38 56 70 84 28 56 17 70 9 20

WHAT DOES THE VET GIVE PERCY FOR HIS SORES?

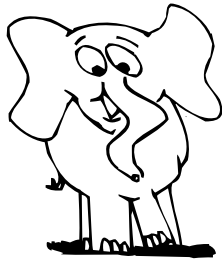
70 74 55 38 74 56 52 80 55 38 52 9



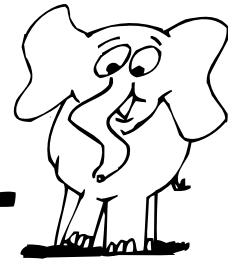
G $\frac{17}{100} = _ \%$ T $\frac{9}{100} = _ \%$ P $\frac{7}{25} = _ \%$ C $\frac{94}{100} = _ \%$ Y $\frac{2}{10} = _ \%$

S $\frac{7}{10} = _ \%$ K $\frac{8}{10} = _ \%$ M $\frac{11}{20} = _ \%$ L $\frac{13}{20} = _ \%$ H $\frac{14}{20} = _ \%$

N $\frac{13}{25} = _ \%$ A $\frac{21}{25} = _ \%$ E $\frac{19}{50} = _ \%$ I $\frac{28}{50} = _ \%$ O $\frac{37}{50} = _ \%$



CRAZY CONVERSIONS



% → FRACTION

% → DECIMAL

$19\% = \frac{\quad}{100} \quad 20\% = \frac{\quad}{100} = \frac{\quad}{5}$

$19\% = 0.\underline{\quad} \quad 60\% = \underline{\quad}$

$63\% = \frac{\quad}{100} \quad 40\% = \frac{\quad}{100} = \frac{\quad}{5}$

$28\% = 0.\underline{\quad} \quad 25\% = \underline{\quad}$

$81\% = \frac{\quad}{100} \quad 50\% = \frac{\quad}{100} = \frac{\quad}{2}$

$56\% = 0.\underline{\quad} \quad 8\% = \underline{\quad}$

$99\% = \frac{\quad}{100} \quad 75\% = \frac{\quad}{100} = \frac{\quad}{4}$

$94\% = 0.\underline{\quad} \quad 5\% = \underline{\quad}$

$7\% = \frac{\quad}{100} \quad 85\% = \frac{\quad}{100} = \frac{\quad}{20}$

$10\% = 0.\underline{\quad} \quad 150\% = \underline{\quad}$

IMPORTANT ELEPHANT INFORMATION!

TO UNCOVER SOME IMPORTANT FACTS ABOUT ELEPHANTS, EACH LETTER BELOW NEEDS A CONVERSION

$\boxed{B} = 30\% \quad \boxed{C} = 23\% \quad \boxed{K} = 8\% \quad \boxed{M} = 90\% \quad \boxed{R} = 35\% \quad \boxed{W} = 57\% \quad \boxed{H} = 16\%$

$\boxed{P} = 41\% \quad \boxed{Z} = 14\% \quad \boxed{I} = 500\% \quad \boxed{G} = 28\% \quad \boxed{O} = 33\frac{1}{3}\% \quad \boxed{S} = 31\% \quad \boxed{E} = 50\%$

$\boxed{L} = 11\% \quad \boxed{A} = 60\% \quad \boxed{Q} = 40\% \quad \boxed{N} = 12\frac{1}{2}\% \quad \boxed{T} = 200\% \quad \boxed{U} = 66\frac{2}{3}\% \quad \boxed{F} = 74\%$

WHAT DO YOU GIVE TO SICK ELEPHANTS?

$\overline{2} \quad \overline{\frac{2}{20}} \quad \overline{\frac{2}{3}} \quad \overline{\frac{1}{8}} \quad \overline{\frac{2}{25}} \quad \overline{4} \quad \overline{\frac{2}{3}} \quad \overline{5} \quad \overline{\frac{11}{100}} \quad \overline{\frac{11}{100}} \quad \overline{5} \quad \overline{.14} \quad \overline{.5} \quad \overline{\frac{2}{20}} \quad \overline{.31}$

HOW DO YOU MAKE AN ELEPHANT FLY?

$\overline{.31} \quad \overline{2} \quad \overline{\frac{3}{5}} \quad \overline{\frac{7}{20}} \quad \overline{2} \quad \overline{.57} \quad \overline{5} \quad \overline{2} \quad \overline{\frac{4}{25}} \quad \overline{\frac{3}{5}} \quad \overline{2} \quad \overline{.57} \quad \overline{\frac{1}{3}} \quad \overline{\frac{9}{10}} \quad \overline{.5} \quad \overline{2} \quad \overline{\frac{7}{20}} \quad \overline{.5} \quad \overline{.14} \quad \overline{5} \quad \overline{\frac{41}{100}}$

WHY DID THE LADY ELEPHANT STOP TAP DANCING?

$\overline{.31} \quad \overline{\frac{4}{25}} \quad \overline{.5} \quad \overline{\frac{37}{50}} \quad \overline{.5} \quad \overline{\frac{11}{100}} \quad \overline{\frac{11}{100}} \quad \overline{5} \quad \overline{\frac{1}{8}} \quad \overline{2} \quad \overline{\frac{1}{3}} \quad \overline{2} \quad \overline{\frac{4}{25}} \quad \overline{.5} \quad \overline{.31} \quad \overline{5} \quad \overline{\frac{1}{8}} \quad \overline{\frac{2}{25}}$

WHAT DO YOU GET IF YOU CROSS A KANGAROO & ELEPHANT?

$\overline{.3} \quad \overline{5} \quad \overline{\frac{7}{25}} \quad \overline{\frac{4}{25}} \quad \overline{\frac{1}{3}} \quad \overline{\frac{11}{100}} \quad \overline{.5} \quad \overline{.31} \quad \overline{\frac{3}{5}} \quad \overline{.23} \quad \overline{\frac{7}{20}} \quad \overline{\frac{1}{3}} \quad \overline{.31} \quad \overline{.31} \quad \overline{\frac{3}{5}} \quad \overline{\frac{2}{3}} \quad \overline{.31} \quad \overline{2} \quad \overline{\frac{7}{20}} \quad \overline{\frac{3}{5}} \quad \overline{\frac{11}{100}} \quad \overline{5} \quad \overline{\frac{3}{5}}$

GIVING 100 PERCENT!

... ALL DA TIME!

$\frac{3}{10} = \underline{\quad\quad} \%$ $\frac{13}{100} = \underline{\quad\quad} \%$ $\frac{1}{50} = \underline{\quad\quad} \%$ $\frac{11}{50} = \underline{\quad\quad} \%$

$\frac{1}{20} = \underline{\quad\quad} \%$ $\frac{9}{20} = \underline{\quad\quad} \%$ $\frac{1}{25} = \underline{\quad\quad} \%$ $\frac{9}{25} = \underline{\quad\quad} \%$

16% = 0. 35% = 0. 42% = 0. 81% = 0.
 6% = 0. 5% = 0. 2% = 0. 1% = 0.

PROFIT IS _____

COST PRICE	\$4	\$9	\$15	\$60	\$80
% PROFIT	50%	50%	100%	25%	10%
REAL PROFIT					
SELL PRICE					

PERCENTAGE PUZZLERS



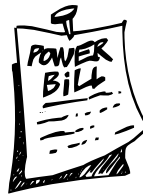
SHOP PRICE = \$75

DISCOUNT = 20% of \$75

= ×

= \$

SALE PRICE = \$



534 UNITS USED.

COST PER UNIT

is 6 cents

ELECTRIC ACCOUNT = \$

+ 12.5% G.S.T = \$

FINAL BILL = \$

- PUZZLE TIME!

COST PRICE	50c	40c	100c	200c
% LOSS	K	N	45%	30%
REAL LOSS	25c	10c	0	L

[S] $\frac{57}{100}$ [I] 40% [E] 28% [B] $\frac{18}{50}$

[J] 1% [R] 23% [A] 100% [T] 10%

ALWAYS GIVE 100%

$\overline{25\%} \overline{45} \overline{.1}$

$\overline{60c} \overline{\frac{2}{5}} \overline{50\%} \overline{\frac{7}{25}}$

$\overline{.36} \overline{1} \overline{.23} \overline{.1} \overline{.57}$

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{aligned} 8 + 3 &= \underline{\quad} \\ 8 - 3 &= \underline{\quad} \\ 4 \times 7 &= \underline{\quad} \\ 12 \div 4 &= \underline{\quad} \\ 7 + 9 &= \underline{\quad} \\ 11 - 5 &= \underline{\quad} \\ 6 \times 6 &= \underline{\quad} \\ 9 \div 1 &= \underline{\quad} \\ 7 - 0 &= \underline{\quad} \\ 4 - 4 &= \underline{\quad} \end{aligned}$$

DANDY DECIMALS

$$\begin{aligned} 0.5 + 0.2 &= \underline{\quad} \\ 0.4 + 0.4 &= \underline{\quad} \\ 0.5 - 0.2 &= \underline{\quad} \\ 0.4 - 0.4 &= \underline{\quad} \\ 1.3 + 0.6 &= \underline{\quad} \\ 1.9 - 0.6 &= \underline{\quad} \\ 4 \times 0.1 &= \underline{\quad} \\ 5 \times 0.3 &= \underline{\quad} \\ \frac{0.6}{3} &= \underline{\quad} \quad \frac{1.2}{3} = \underline{\quad} \end{aligned}$$

RADICAL ROMANS

$$\begin{aligned} \text{II} &= \underline{\quad} \\ \text{IV} &= \underline{\quad} \\ \text{VI} &= \underline{\quad} \\ \text{IX} &= \underline{\quad} \\ \text{XV} &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} \underline{\quad} &= 5 \\ \underline{\quad} &= 10 \\ \underline{\quad} &= 13 \\ \underline{\quad} &= 21 \\ \underline{\quad} &= 25 \end{aligned}$$



EXTRA EXAMPLES

$$\begin{aligned} 321 + 200 &= \underline{\quad} \\ 400 + 400 &= \underline{\quad} \\ 300 - 165 &= \underline{\quad} \\ 400 - 120 &= \underline{\quad} \\ 60 \times 5 &= \underline{\quad} \\ 38 \times 10 &= \underline{\quad} \\ 70 \div 7 &= \underline{\quad} \\ 1500 \div 10 &= \underline{\quad} \\ 444 + 555 &= \underline{\quad} \\ 651 - 156 &= \underline{\quad} \end{aligned}$$

THE QUINTUS QUIZ

I LEFT HOME AT _____
IT TOOK _____ MINUTES TO
GET TO SCHOOL. SCHOOL WENT
FOR _____ HOURS. SUPPER
WAS AT _____ TODAY. I WAS
OUT OF BED FOR _____ HOURS.

- TUESDAY -
OUT OF BED 7:00 am.
LEFT HOME 8:30
GO TO SCHOOL 9:00
SCHOOL FINISHED 4:00
ARRIVED HOME 4:20
SUPPER TIME 8:45
INTO MY BED 11:00

NUMBER OF MISTAKES _____

QUOTE-A-BILL QUANTITIES

A DISCOUNT IS _____



SHOP PRICE = \$ 60
DISCOUNT = 10% of \$60
= _____ x _____

SALE PRICE = _____
= \$ _____



SHOP PRICE = \$ 42
DISCOUNT = 50% of \$42
= $\frac{1}{2}$ x _____

SALE PRICE = _____
= \$ _____

DO THE CALCULATIONS TO COMPLETE THIS TABLE!

ORIGINAL PRICE	BIKE \$250	HAT \$12	BOOK \$40	TAPE \$10	HOLIDAY \$800	SOCKS \$5
% DISCOUNT	20%	25%	10%	30%	5%	40%
AMOUNT OF DISCOUNT						
SALE PRICE						

G.S.T. IS _____

PHONE RENTAL = \$ 30
TOLL ACCOUNT = \$ 18
TOTAL _____

+ 12.5% G.S.T. = \$ _____

FINAL BILL = \$ _____

GAS ACCOUNT = \$ 13
SERVICE FEE = \$ 7
TOTAL _____

+ 12.5% G.S.T. = \$ _____

FINAL BILL = \$ _____

COMPLETE THE TABLE TO UNCOVER A SAD QUOTE!

ACCOUNT	16c	56c	\$24	80c	\$32	72c	\$40	\$88
+12.5%G.S.T.	S	A	V	L	K	B	M	G
TOTAL BILL	F	I	R	U	E	O	T	N

81 3 36 27 63 99 18 10 7 45 63 81 99 5 7 4 36 2 81 99 36 11 81 9 90 2 45

- MORE ON PERCENT -

LANA GOT 40 MARKS OUT OF 80. SHE SCORED _____ %
 GANA GOT 37 MARKS OUT OF 50. SHE SCORED _____ %
 SITU GOT 19 MARKS OUT OF 25. SHE SCORED _____ %
 FITU GOT 8 MARKS OUT OF 10. SHE SCORED _____ %

WHOSE RESULT WAS THE BEST? _____

ANNA KEPT A RECORD OF HER EARNINGS AND SAVINGS FOR THE 5 WEEKS SHE WORKED.

COMPLETE HER TABLE!

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
EARNINGS	\$ 100	\$ 90	\$ 120	\$ 80	\$ 150
SAVINGS	\$ 48	\$ 45	\$ 66	\$ 32	\$ 60
% SAVED					

NOW LINE UP EACH SUM WITH ITS CORRECT ANSWER TO COMPLETE THE SENTENCE!

WHAT % IS 30 OF 60	13	25
WHAT % IS 8 OF 20	10	10
WHAT % IS 5 OF 25	3	50 (THIS ONE IS DONE FOR YOU)
WHAT % IS 9 OF 90	6	72
WHAT % IS 14 OF 280	K	35
WHAT % IS 2 OF 16	9	40
WHAT % IS 12 OF 48	18	100
WHAT % IS 3 OF 120	16	82
WHAT % IS 21 OF 70	1	12.5
WHAT % IS 24 OF 40	17	60
FIND 10% OF 950	5	81
FIND 20% OF 500	15	20
FIND 25% OF 300	11	2.5
FIND 40% OF 180	12	95
FIND 50% OF 164	7	90
FIND 60% OF 150	14	75
FIND 75% OF 108	2	5
FIND 100% OF 35	1	30

THE SAW-DOCTOR'S JOURNEY INTO AFRICA WAS TO...

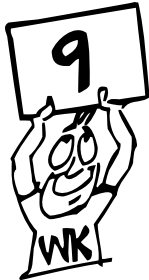
.....

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{aligned}
 3 + 2 &= \underline{\quad} \\
 10 - 5 &= \underline{\quad} \\
 4 \times 1 &= \underline{\quad} \\
 9 \div 3 &= \underline{\quad} \\
 6 + 4 &= \underline{\quad} \\
 8 - 7 &= \underline{\quad} \\
 5 \times 5 &= \underline{\quad} \\
 6 \div 2 &= \underline{\quad} \\
 7 - 4 &= \underline{\quad} \\
 9 - 3 &= \underline{\quad}
 \end{aligned}$$



MONEY MIXTURES

$$\begin{aligned}
 10c + 20c &= \underline{\quad} \\
 20c + 50c &= \underline{\quad} \\
 55c - 15c &= \underline{\quad} \\
 20c - 20c &= \underline{\quad} \\
 4 \times 20c &= \underline{\quad} \\
 5 \times 50c &= \underline{\quad} \\
 \$3 + \$7 &= \underline{\quad} \\
 \$7 - \$3 &= \underline{\quad} \\
 \$7 \times 8 &= \underline{\quad} \\
 \$20 \div 4 &= \underline{\quad}
 \end{aligned}$$

VISCOUS VARIABLES

$$\begin{aligned}
 k + k &= \underline{\quad} \\
 l - l &= \underline{\quad} \\
 3m + m &= \underline{\quad} \\
 5n + 2n &= \underline{\quad} \\
 4p + 3p &= \underline{\quad} \\
 3q - q &= \underline{\quad} \\
 5r - 2r &= \underline{\quad} \\
 2s + 2s &= \underline{\quad} \\
 t + t + t &= \underline{\quad} \\
 3u - 3u &= \underline{\quad}
 \end{aligned}$$

EXTRA EXAMPLES

$$\begin{aligned}
 200 + 145 &= \underline{\quad} \\
 300 + 400 &= \underline{\quad} \\
 200 - 110 &= \underline{\quad} \\
 100 - 63 &= \underline{\quad} \\
 60 \times 2 &= \underline{\quad} \\
 70 \times 3 &= \underline{\quad} \\
 40 \div 4 &= \underline{\quad} \\
 50 \div 10 &= \underline{\quad} \\
 222 + 222 &= \underline{\quad} \\
 435 - 135 &= \underline{\quad}
 \end{aligned}$$

THE QUINTUS QUIZ

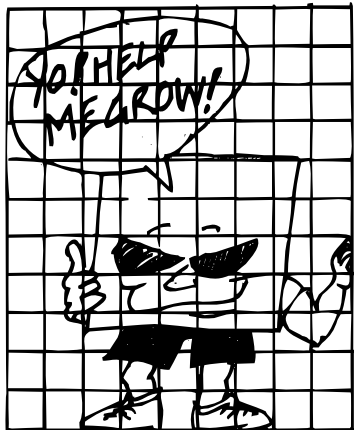
- HOW MANY DAYS IN MAY? _____
- WHAT DAY IS APRIL 23rd? _____
- WHAT DATE IS THE FIRST WEDNESDAY OF MAY? _____
- WHAT DATE IS THE THIRD SUNDAY OF APRIL? _____
- HOW MANY TUESDAYS IN APRIL? _____

APRIL						
M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

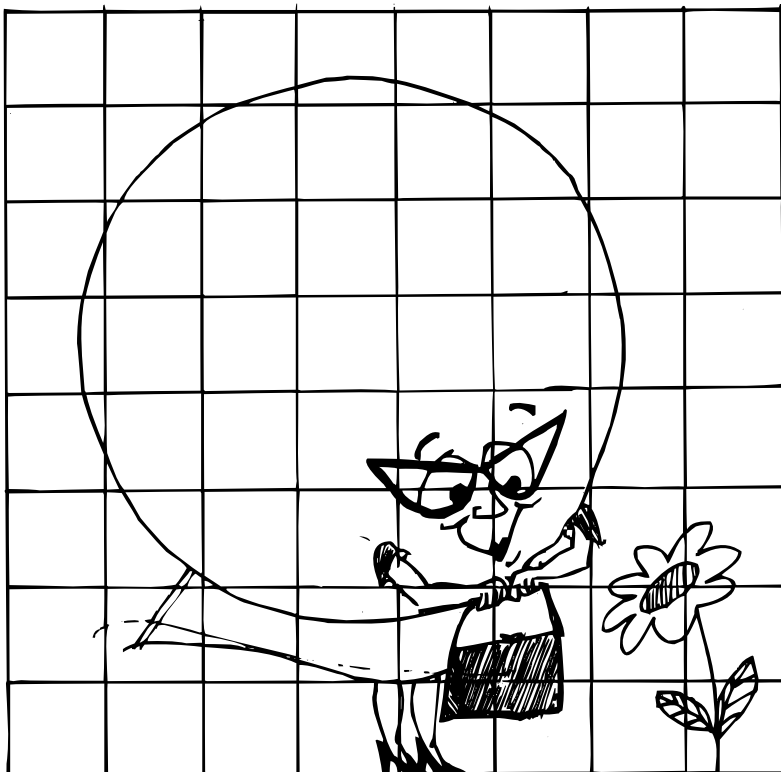
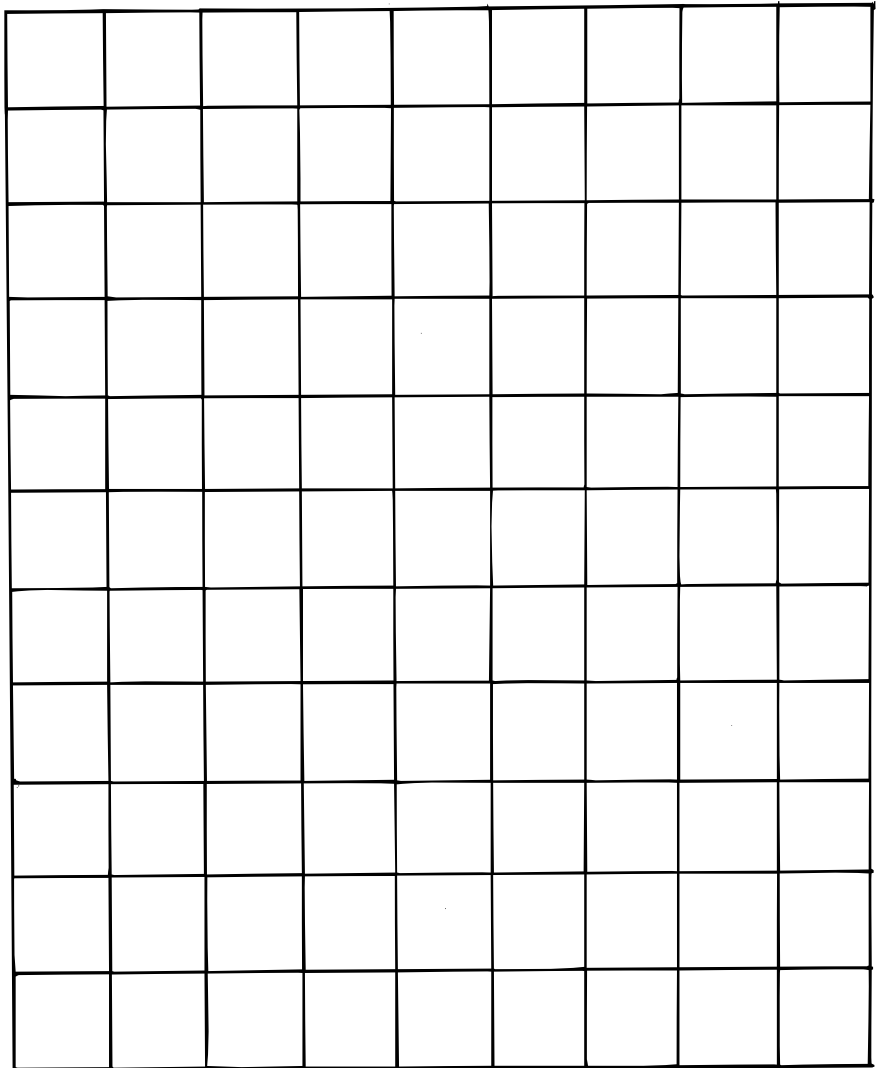
MAY						
M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NUMBER OF MISTAKES _____

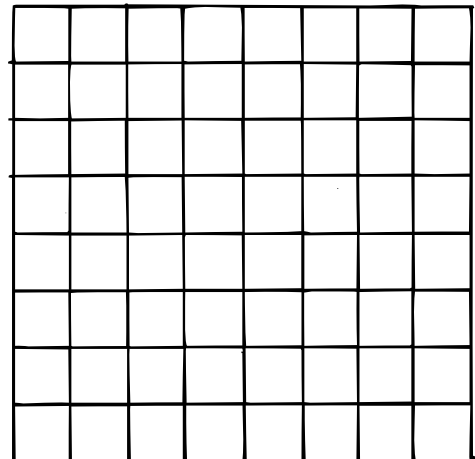
ENLARGEMENT



USE THE GRID
TO ENLARGE
STANLEY
SQUARE!

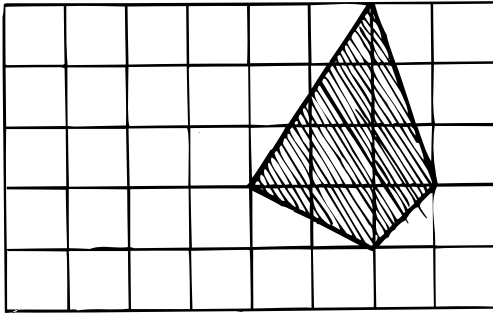


NOW USE THE GRID
TO MAKE SUZY
SMALLER!

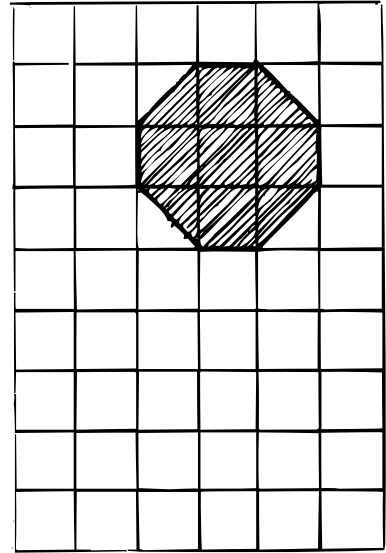


TRANSLATIONS

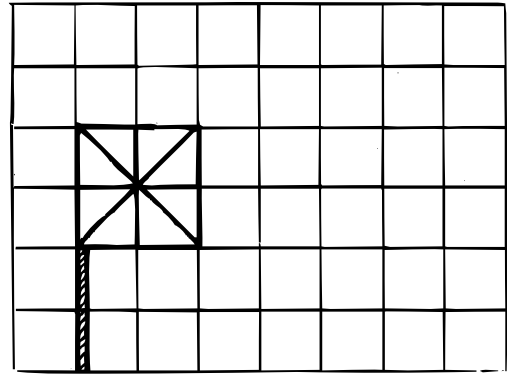
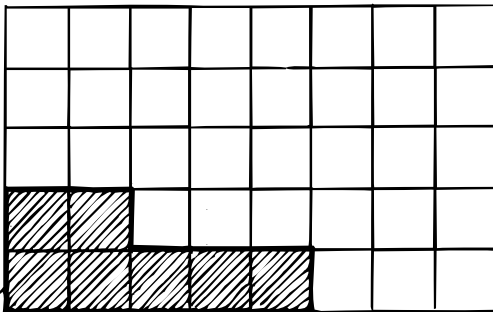
TRANSLATE 4 UNITS TO THE LEFT.



TRANSLATE
3 UNITS
DOWN.



TRANSLATE 2 UNITS TO THE RIGHT.



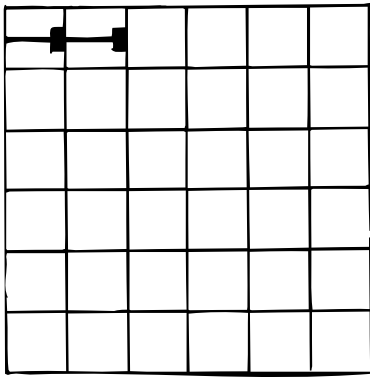
TRANSLATE 2 UNITS UP &
3 UNITS RIGHT.

PROPERTIES FILL IN ALL THE GAPS!

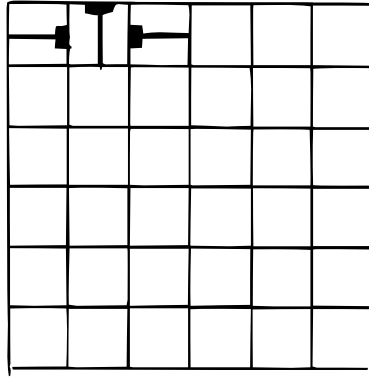
TRANSLATION	HOW DO WE DO IT?	DOES THE SIZE CHANGE?	DOES THE SHAPE CHANGE?	DO ALL POINTS MOVE?
REFLECTION				
ROTATION				
TRANSLATION				
ENLARGEMENT				

PATTERNS USING TRANSFORMERS - FILL IN EACH GRID!

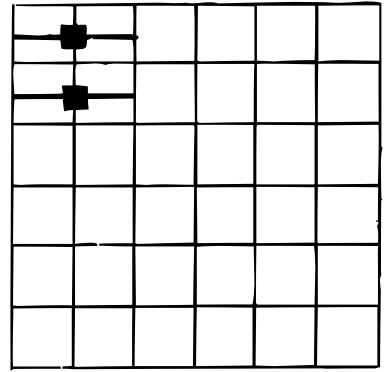
 TRANSLATE



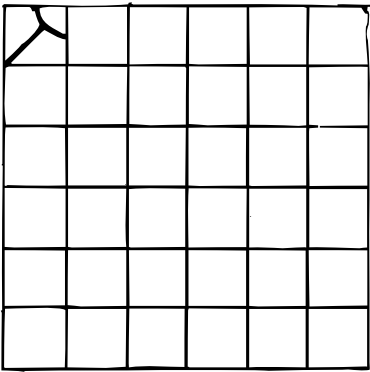
ROTATE 90°



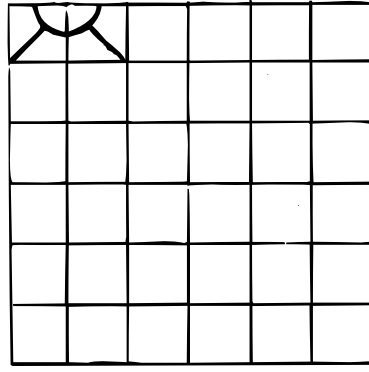
REFLECT



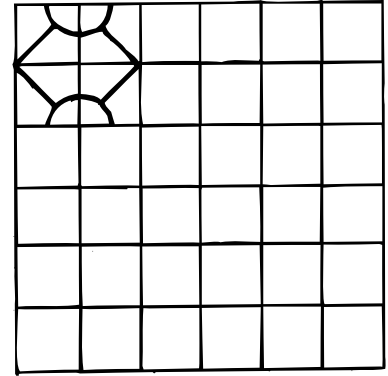
 TRANSLATE



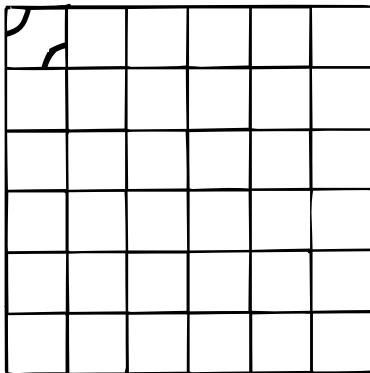
ROTATE 90°



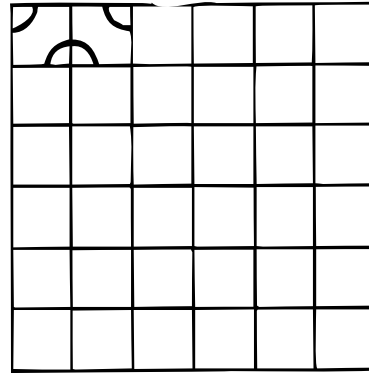
REFLECT



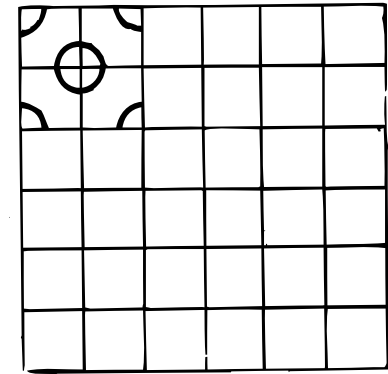
 TRANSLATE



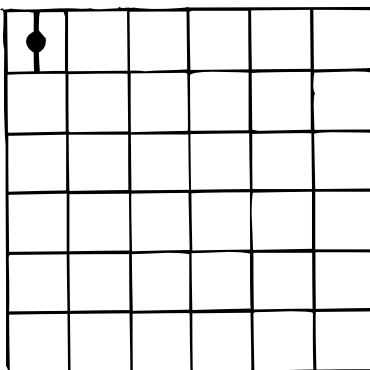
ROTATE 90°



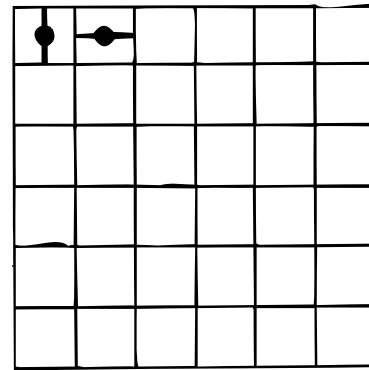
REFLECT



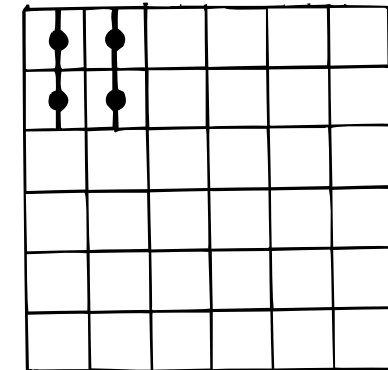
 TRANSLATE



ROTATE 90°

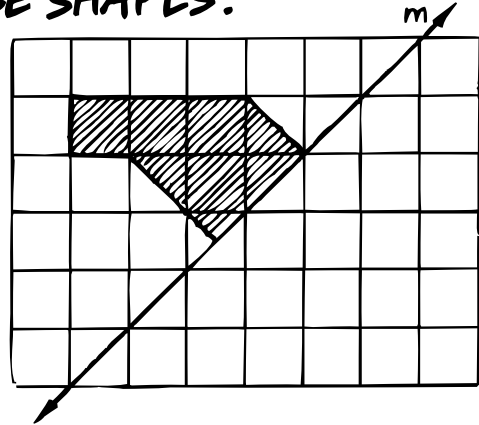
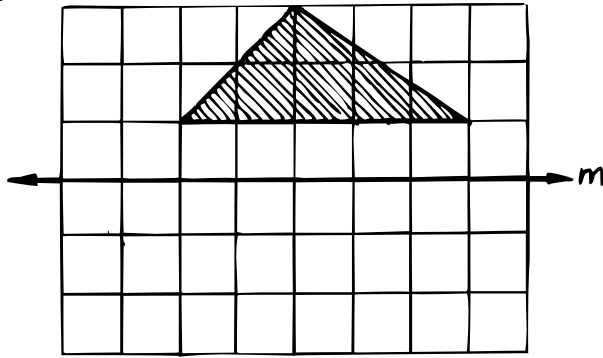


REFLECT

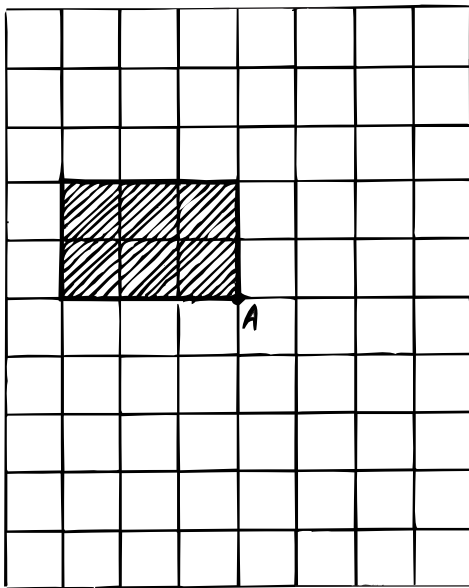


TIME TO TRANSFORM!

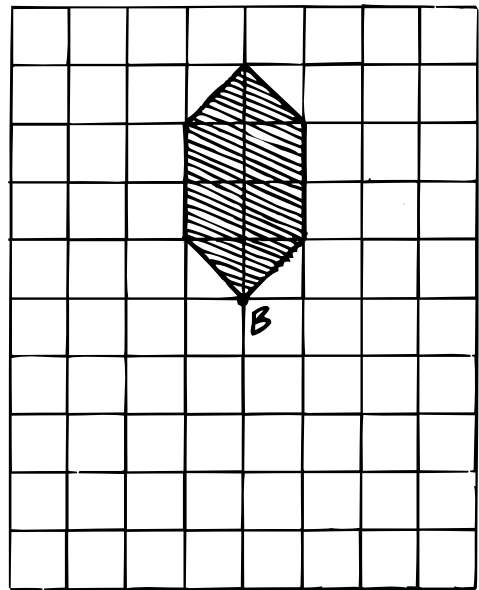
1 DRAW THE REFLECTIONS OF THESE SHAPES.



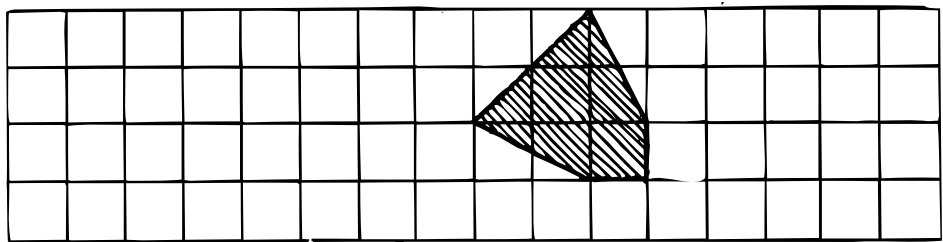
2 ROTATE THE SHAPE CLOCKWISE 90° ABOUT A.



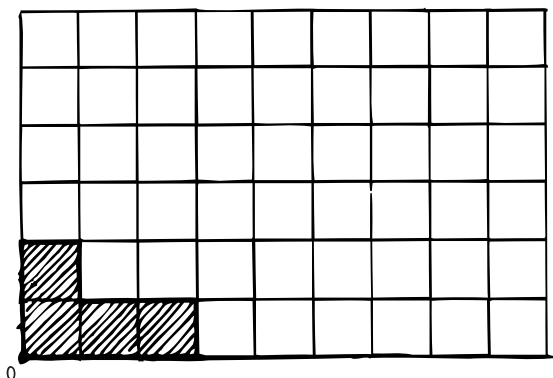
3 ROTATE THE SHAPE 180° ABOUT B.



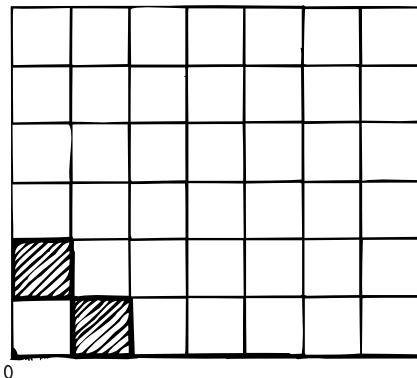
4 TRANSFORM 4 UNITS TO THE LEFT.



5 ENLARGE THE SHAPE SO IT IS 2 TIMES BIGGER.



6 ENLARGE THE SHAPE SO IT IS 3 TIMES BIGGER.



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{aligned}5 + 3 &= \underline{\hspace{2cm}} \\10 - 4 &= \underline{\hspace{2cm}} \\6 \times 8 &= \underline{\hspace{2cm}} \\4 \div 4 &= \underline{\hspace{2cm}} \\7 + 2 &= \underline{\hspace{2cm}} \\8 - 3 &= \underline{\hspace{2cm}} \\5 \times 5 &= \underline{\hspace{2cm}} \\6 \div 3 &= \underline{\hspace{2cm}} \\9 - 7 &= \underline{\hspace{2cm}} \\5 - 1 &= \underline{\hspace{2cm}}\end{aligned}$$

TRENDY TABLES

$$\begin{aligned}4 \times 1 &= \underline{\hspace{2cm}} \\4 \times 2 &= \underline{\hspace{2cm}} \\4 \times 3 &= \underline{\hspace{2cm}} \\4 \times \underline{\hspace{1cm}} &= 16 \\4 \times \underline{\hspace{1cm}} &= 20 \\4 \times \underline{\hspace{1cm}} &= 32 \\4 \times 9 &= \underline{\hspace{2cm}} \\4 \times 10 &= \underline{\hspace{2cm}} \\4 \times \underline{\hspace{1cm}} &= 48 \\4 \times \underline{\hspace{1cm}} &= 60\end{aligned}$$



SOFT SUBSTITUTES

$$\begin{aligned}k = 7, k + 3 &= \underline{\hspace{2cm}} \\l = 8, l + 11 &= \underline{\hspace{2cm}} \\m = 4, m - 2 &= \underline{\hspace{2cm}} \\n = 9, n - 5 &= \underline{\hspace{2cm}} \\p = 2, 8 + p &= \underline{\hspace{2cm}} \\r = 3, 7 - r &= \underline{\hspace{2cm}} \\s = 5, 8s &= \underline{\hspace{2cm}} \\t = 6, 3t &= \underline{\hspace{2cm}} \\u = 1, 5u &= \underline{\hspace{2cm}} \\v = 10, 6v &= \underline{\hspace{2cm}}\end{aligned}$$

EXTRA EXAMPLES

$$\begin{aligned}32 \text{ ADDED TO } 9 \text{ IS } &\underline{\hspace{2cm}} \\13 \text{ TIMES } 5 \text{ IS } &\underline{\hspace{2cm}} \\\$5.40 + \$2.55 &= \underline{\hspace{2cm}} \\\$8.65 + \$9.70 &= \underline{\hspace{2cm}} \\829 &= \underline{\hspace{1cm}} + 20 + 9 \\700 + 40 + 3 &= \underline{\hspace{2cm}} \\230 + 142 &= \underline{\hspace{2cm}} \\175 + 251 &= \underline{\hspace{2cm}} \\250 - 140 &= \underline{\hspace{2cm}} \\177 - 33 &= \underline{\hspace{2cm}}\end{aligned}$$

THE QUINTUS QUIZ

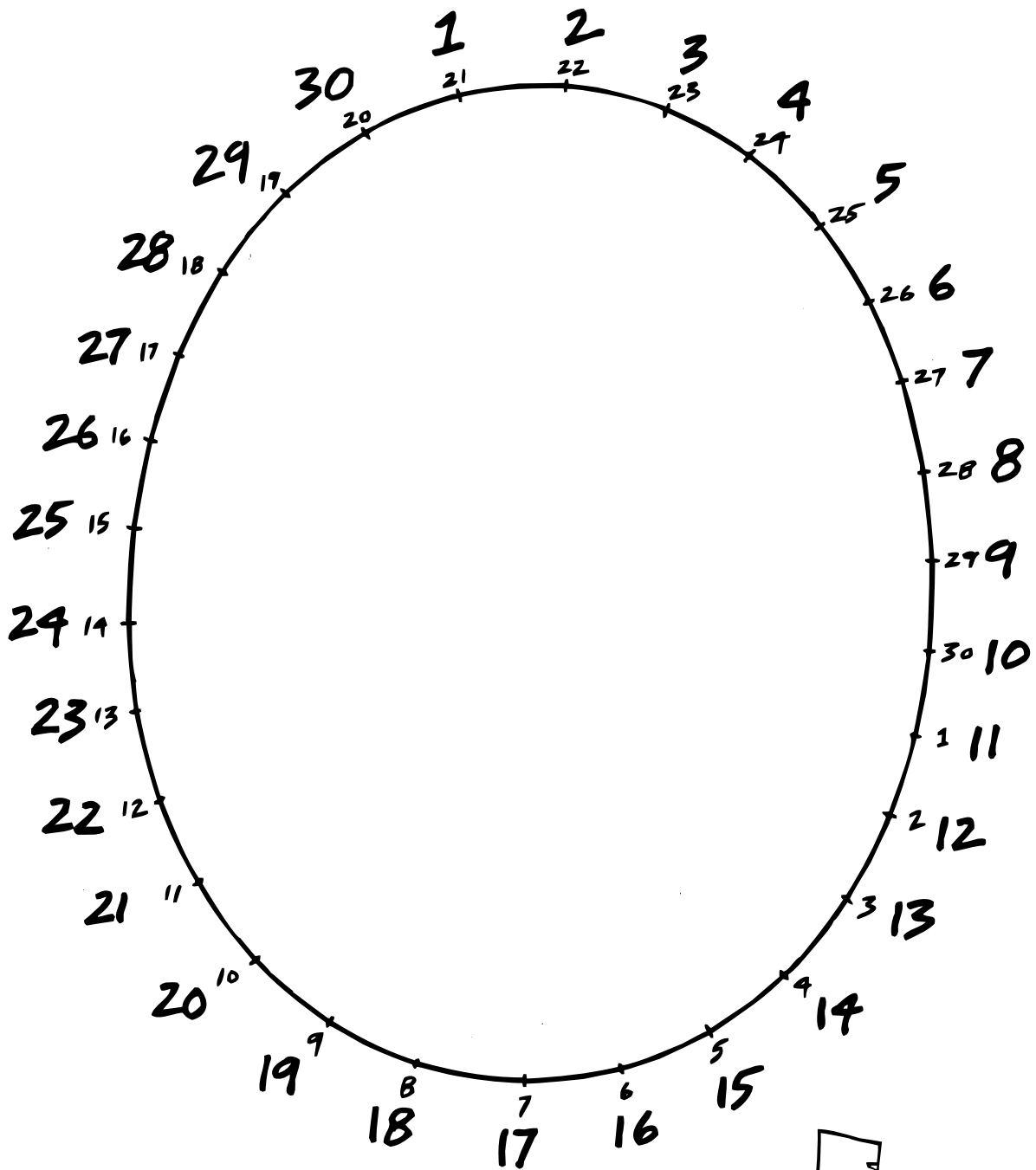
-FIND THE COST FOR...

- 2 PARENTS ONLY _____
- 3 PARENTS & 1 STUDENT _____
- 1 PARENT & 1 VISITOR _____
- 1 PARENT & 3 STUDENTS _____
- 2 PARENTS & 2 VISITORS _____



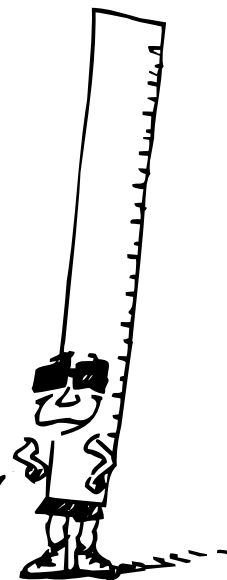
NUMBER OF MISTAKES _____

'EYE IN THE SKY!'



JOIN THE BIG NUMBERS
TO THE SAME LITTLE
NUMBERS TO COMPLETE
THE DESIGN!

YOU'LL NEED RODNEY
RULER TO HELP YOU!



PUT A +, -, x OR ÷ SIGN IN EACH □ TO MAKE THE EQUATIONS CORRECT!

$5 \square (3+5) = 13$

$9-9 = 8 \square 8$

$6 \div 2 \square 3 = 9$

$10 \square (2 \times 5) = 1$

$16+8 = 8 \square 3$

$15 \times 6 \square 3 = 30$

$36 \square (4 \times 3) = 48$

$8 \div 8 = 9 \square 9$

$6 \times 4 \square 3 = 21$

$9 \square (12-6) = 3$

$36 \div 4 = 7 \square 2$

$9+8 \square 7 = 10$

$12 \square (8 \div 2) = 48$

$3 \times 10 = 6 \square 5$

$3 \times 4 \square 2 = 24$

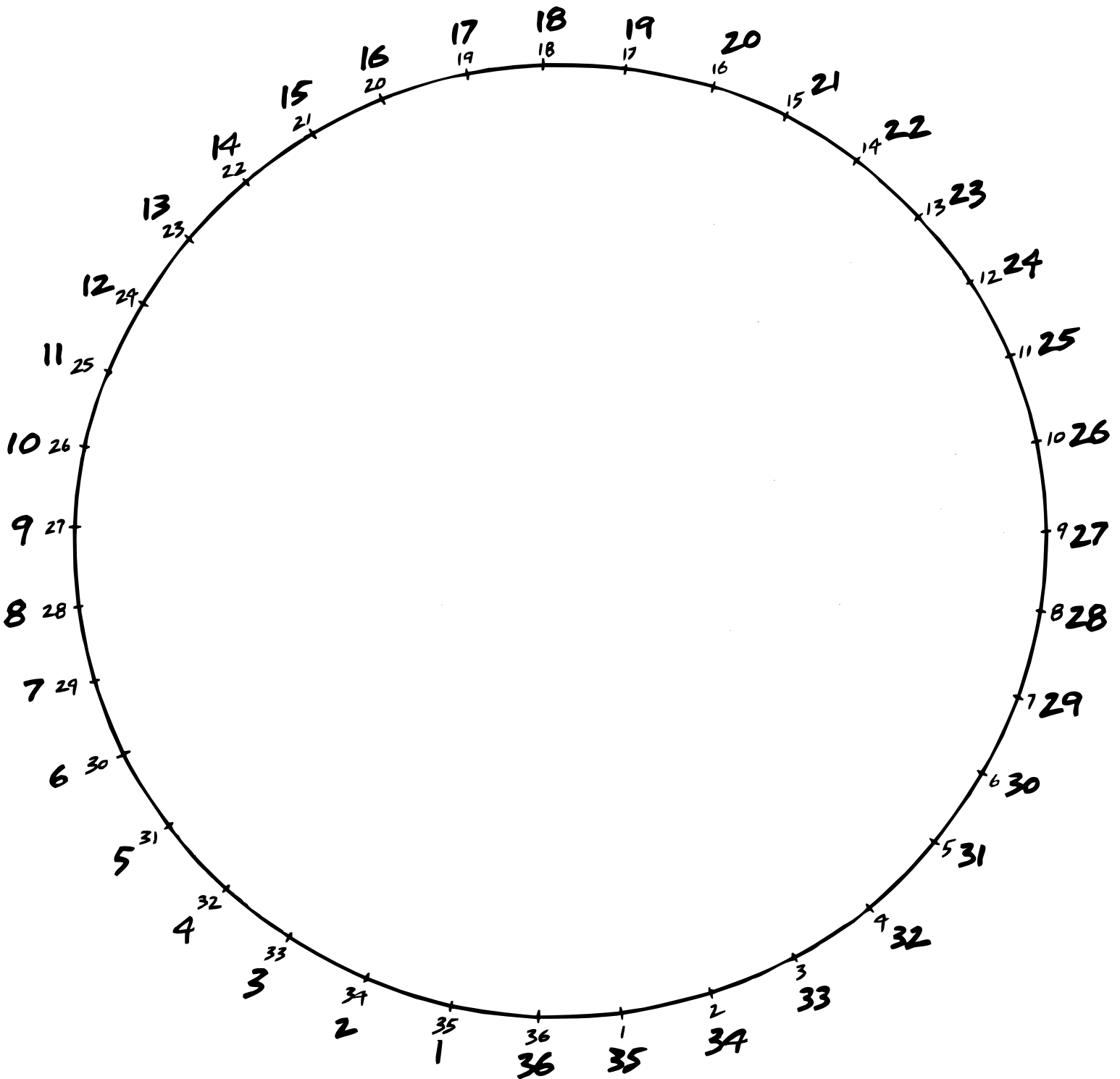
CROSS NUMBER PUZZLE

		60	÷	10	=		+	66	-		=	72	÷	8	=			
+		÷		÷		x		-			÷		x		÷		-	
1		15	÷		=			÷	7	=		6	÷		=	2		
=		=		=		=		=		x	=	=		=		=		
8	÷		=			18	÷		=			8		-	3	=		
								x		=				-			÷	
	÷	8	=	6				9	+	42	-		=	8	+		=	9
÷		x						=					=			=		
4	x	7	=		-		=		+	5	=		40	-		=		
=		=						-			÷			÷		+		
		-	2	=						96	÷	8	=		+	7	=	
+					÷		=			=			=		=		=	
		24		90	÷	9	=		+	50	+		=		5			
=		÷			=							÷						-
	+		=	43			+	29	=			56	÷	8	=		=	
	=		-				÷			÷		=		+		=		
	4	+		=	22		49	÷	7	=			+	9	=			
	=						=					=						
		-	12	-		=				x	2	=						

CHRIS CROSS



TIME TO 'DOUBLE-UP!'



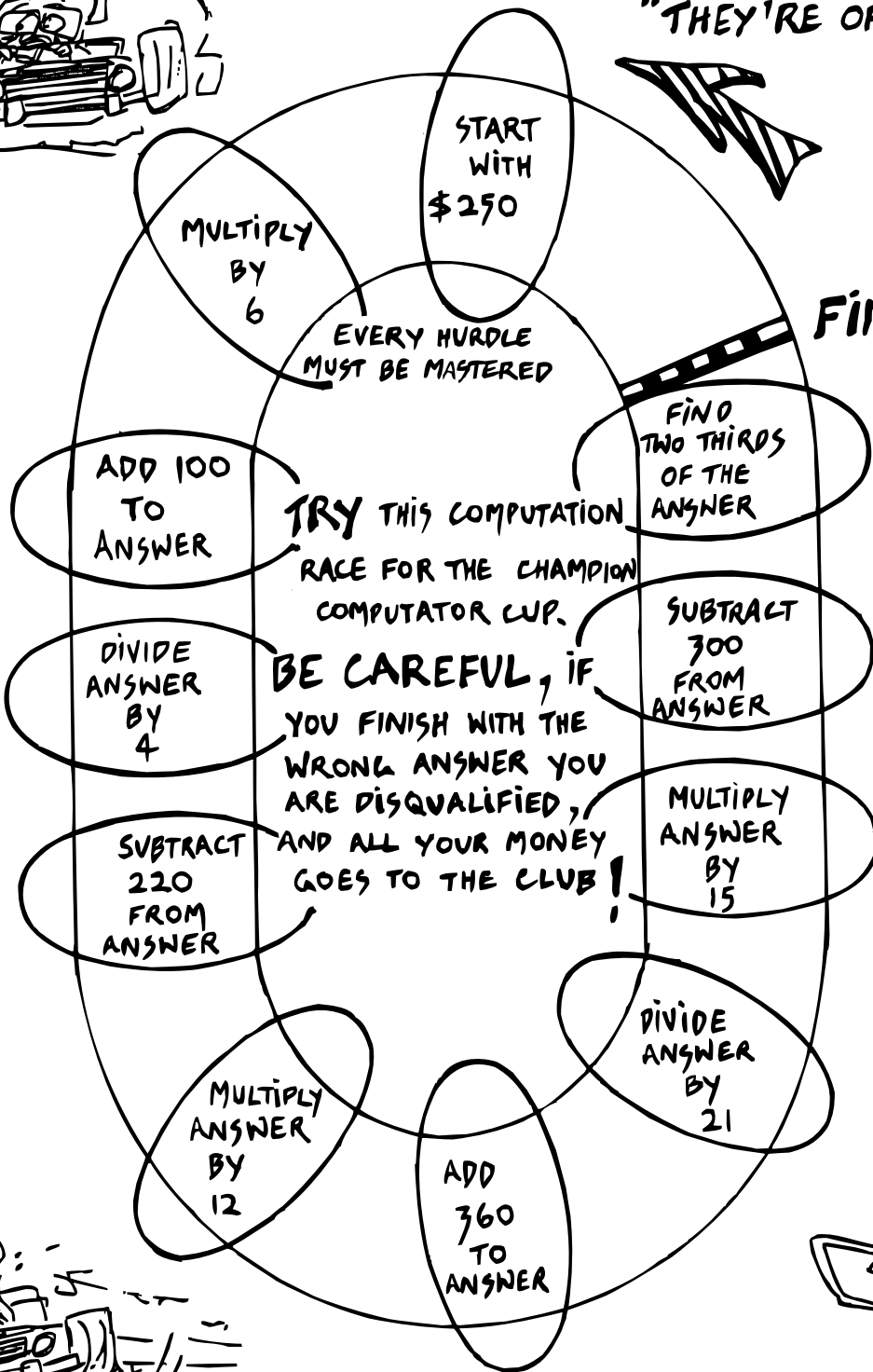
START AT 1 WITH THE LITTLE NUMBERS, AND JOIN EACH NUMBER TO ITS DOUBLE, eg JOIN 1 WITH 2, 2 WITH 4, 3 WITH 6 etc. NOW REPEAT WITH THE BIG NUMBERS. COLOUR YOUR DESIGN. IT IS CALLED A CARDIOID!

THE COMPUTATION CHALLENGE.

\$250 TO INVEST. HOW MUCH DO YOU WIN?



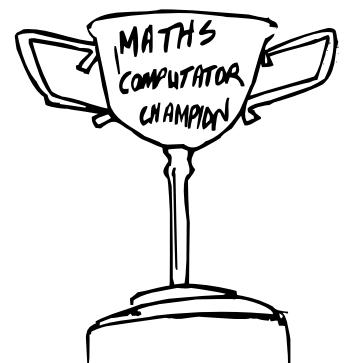
"THEY'RE OFF"



FINISH

MY FINAL ANSWER IS:

\$



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{aligned}
 9 + 5 &= \underline{\quad} \\
 9 - 5 &= \underline{\quad} \\
 8 \times 9 &= \underline{\quad} \\
 10 \div 2 &= \underline{\quad} \\
 7 + 6 &= \underline{\quad} \\
 8 - 8 &= \underline{\quad} \\
 7 \times 6 &= \underline{\quad} \\
 3 \div 3 &= \underline{\quad} \\
 10 - 7 &= \underline{\quad} \\
 10 - 0 &= \underline{\quad}
 \end{aligned}$$

FANTASTIC FRACTIONS

$$\begin{aligned}
 \frac{1}{2} \text{ OF } 4 &= \underline{\quad} \\
 \frac{1}{2} \text{ OF } 8 &= \underline{\quad} \\
 \frac{1}{2} \text{ OF } 16 &= \underline{\quad} \\
 \frac{1}{2} \text{ OF } 30 &= \underline{\quad} \\
 \frac{1}{3} \times \frac{1}{3} &= \underline{\quad} \\
 \frac{2}{5} \times \frac{3}{7} &= \underline{\quad} \\
 \frac{1}{3} + \frac{1}{3} &= \underline{\quad} \\
 \frac{2}{5} + \frac{2}{5} &= \underline{\quad} \\
 \frac{1}{3} - \frac{1}{3} &= \underline{\quad} \\
 \frac{1}{4} - \frac{1}{4} &= \underline{\quad}
 \end{aligned}$$



MIGHTY METRICS

$$\begin{aligned}
 40\text{m} + 80\text{m} &= \underline{\quad} \\
 37\text{cm} + 17\text{cm} &= \underline{\quad} \\
 52\text{m} - 32\text{m} &= \underline{\quad} \\
 61\text{mm} - 45\text{mm} &= \underline{\quad} \\
 \underline{\quad}\text{cl} &= 1\text{l} \\
 \underline{\quad}\text{cl} &= 3\text{l} \\
 1000\text{mg} &= \underline{\quad}\text{g} \\
 2000\text{mg} &= \underline{\quad}\text{g} \\
 \underline{\quad}\text{m} &= 5.678\text{ km} \\
 8567\text{ m} &= \underline{\quad}\text{km}
 \end{aligned}$$

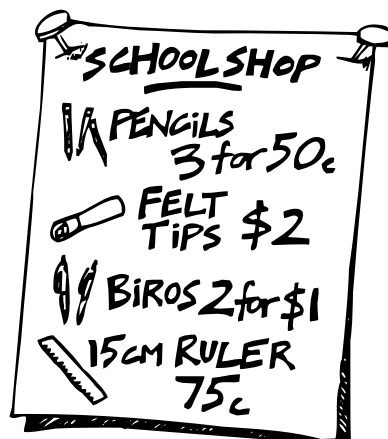
EXTRA EXAMPLES

$$\begin{aligned}
 \underline{\quad} \text{ DAYS IN } 1 \text{ FORTNIGHT} \\
 300 \text{ sec} &= \underline{\quad} \text{ MINUTES} \\
 0.9 + 0.9 &= \underline{\quad} \\
 1.3 - 0.7 &= \underline{\quad} \\
 0.3 \times 9 &= \underline{\quad} \\
 0.9 \div 3 &= \underline{\quad} \\
 16, 8, \underline{\quad}, 2, 1 \\
 407 + 704 &= \underline{\quad} \\
 862 - 145 &= \underline{\quad} \\
 3^2 &= \underline{\quad}
 \end{aligned}$$

THE QUINTUS QUIZ

- FIND THE COST OF...

$$\begin{aligned}
 9 \text{ PENCILS} &\underline{\quad} \\
 4 \text{ FELT TIPS} &\underline{\quad} \\
 6 \text{ BIROS} &\underline{\quad} \\
 9 \text{ PENCILS \& } 1 \text{ RULER} &\underline{\quad} \\
 4 \text{ FELT TIPS, } 6 \text{ BIROS,} \\
 \& 1 \text{ RULER} &\underline{\quad}
 \end{aligned}$$

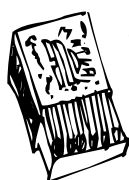


NUMBER OF MISTAKES


- KNOW MY METRICS -

CHOOSE AN ANSWER FROM THE BOTTOM OF THE PAGE FOR EACH OF THE MEASUREMENTS!

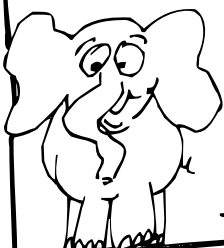
HOW MANY MATCHES IN THE BOX?




HOW MUCH VANILLA ESSENCE IN THE BOTTLE?



HOW HEAVY?




HOW MUCH PETROL IN THE CAN?



HOW TALL IS A PRESCHOOLER?



HOW POWERFUL?




FREE AIR


WHAT PRESSURE IN A TRUCK TYRE?



WHAT MASS?




HOW HEAVY?



DIET


HOW MUCH FOOD ENERGY?




HOW HIGH?



HOW LONG IS A FINGER?




HOW MANY SECONDS IN AN HOUR?



HOW FAR HAS THE BALL TRAVELLED?



WHAT IS TODAY'S TEMPERATURE?



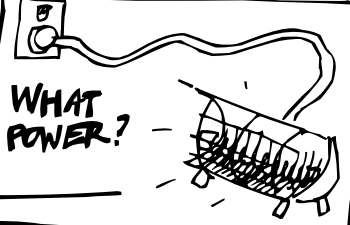
HOW MUCH ICE-CREAM?



HOW FAR TO THE HOLIDAY PARK?



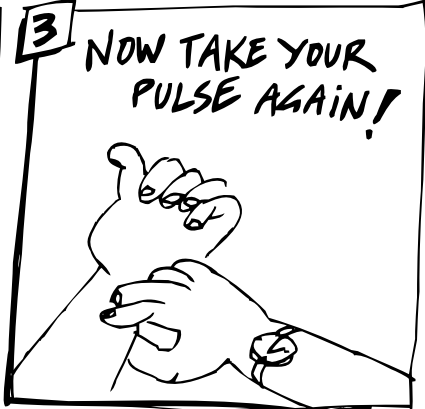
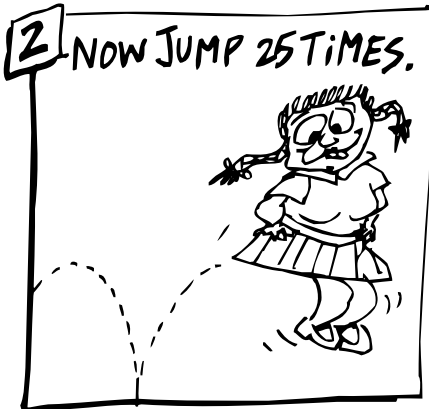
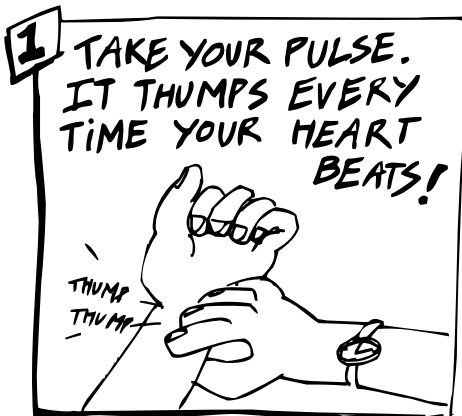
WHAT POWER?



ANSWERS

1ml 4500m 21kg 2l 30cm 18°C 30l 51J
 760g 800sec 1500W 8000kJ 28ml 68km
 50 1m 5l 200m 3600sec 1km 72kg 60_{mm}
 111°C 2tonne 75W 300kPa 19m 40l 11

MYSTICAL MEASURE - YOU'LL NEED A WATCH FOR THIS PAGE!



HOW MANY THUMPS DOES YOUR PULSE MAKE EVERY MINUTE?

	THUMPS PER MINUTE
BEFORE HOPPING	
AFTER HOPPING	

NOW WAIT FOR 2 MINUTES, RELAX, THEN REPEAT THE EXPERIMENT!

	THUMPS PER MINUTE
BEFORE HOPPING	
AFTER HOPPING	

WHAT HAPPENED? _____

HOW LONG CAN I HOLD MY BREATH?

TAKE A DEEP BREATH, HOLD IT, RELEASE, AND RELAX.

REPEAT AFTER 2 MINUTES.

REPEAT AFTER 3 MINUTES.



MY RESULTS

1 BREATH HELD - seconds.

2 BREATH HELD - seconds

3 BREATH HELD - seconds

MY BEST TIME WAS - seconds

CLASS RESULTS

FASTEST PULSE RATE - T.P.M NAME

SLOWEST PULSE RATE - T.P.M NAME

FITTEST PERSON - NAME

STRONGEST LUNGS - NAME

TIMING THE T.V.



24 HOUR CLOCK	TIME	T.V. ONE
1000	10.00	THE MUPPET SHOW
_____	10.25	ROYAL HERITAGE
_____	11.40	A BIG COUNTRY
1200	12.00	ENGLISH SOCCER
_____	1.00	NEWS REVIEW
_____	1.20	EATING EARTH
1445	2.45	WALT DISNEY
_____	3.45	SUNDAY GRANDSTAND
_____	6.05	COUNTRY CALENDAR
1830	6.30	NETWORK NEWS
_____	6.50	FRONTLINE
_____	7.30	MALGYVER
2030	8.30	MASTERPIECE THEATRE
2130	9.30	NETWORK NEWS
_____	9.45	KOHA
_____	9.50	C.V.
2230	10.30	SUNDAY HORRORS
_____		(CLOSEDOWN AT MIDNIGHT)

Fill in the missing times →

MY FAVOURITE PROGRAMME IS _____

AND IT IS ON FOR _____ min
HOW LONG IS ;

1 WALT DISNEY _____ min

2 A BIG COUNTRY _____ min

3 SUNDAY HORRORS _____ min

WHICH PROGRAMME IS THE SHORTEST? _____

TWO PROGRAMMES ARE ON FOR 25 minutes. THEY ARE _____

& _____

HOW MANY TIMES IS NEWS ON T.V. ONE? _____

HOW MUCH TIME IS GIVEN TO THE NEWS? _____ min

NOW FILL IN THE MISSING TIMES IN THE CHART BELOW!

24 HOUR TIMES	12 HOUR TIMES	TIME IN WORDS
	8.20 am	TWENTY PAST EIGHT IN THE MORNING
1325		TWENTY-FIVE PAST ONE IN THE AFTERNOON
1100		
	10.15 am	
1630		
	6.05 pm	
2220		TWENTY PAST TEN AT NIGHT
		TEN TO THREE IN THE AFTERNOON

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{array}{ll}
 16-5 = \underline{\quad} & 28 \times 3 = \underline{\quad} \\
 13+15 = \underline{\quad} & 22 \times 5 = \underline{\quad} \\
 27-19 = \underline{\quad} & 19-18 = \underline{\quad} \\
 58+7 = \underline{\quad} & 66 \div 6 = \underline{\quad} \\
 3 \times 35 = \underline{\quad} & 40 \times 5 = \underline{\quad} \\
 4 \times 23 = \underline{\quad} & 120-90 = \underline{\quad} \\
 84-6 = \underline{\quad} & 56+82 = \underline{\quad} \\
 84 \div 3 = \underline{\quad} & 22+88 = \underline{\quad} \\
 36 \div 12 = \underline{\quad} & 90 \div 5 = \underline{\quad} \\
 3 \times 90 = \underline{\quad} & 27 \div 9 = \underline{\quad}
 \end{array}$$

TELLING TABLES

$$\begin{array}{l}
 3 \times 2 = \underline{\quad} \\
 3 \times 4 = \underline{\quad} \\
 3 \times 7 = \underline{\quad} \\
 3 \times 13 = \underline{\quad} \\
 3 \times 10 = \underline{\quad} \\
 3 \times 6 = \underline{\quad} \\
 3 \times 9 = \underline{\quad} \\
 3 \times 12 = \underline{\quad} \\
 3 \times 3 = \underline{\quad} \\
 3 \times 8 = \underline{\quad}
 \end{array}$$



EXTRA EXAMPLES

$$\begin{array}{ll}
 4 + 8 = 15 - \underline{\quad} & 3 \times \underline{\quad} = 42 \div 7 \\
 12 \times 2 = 18 + \underline{\quad} & 4 + \underline{\quad} = 3 \times 9 \\
 66 \div 6 = 20 - \underline{\quad} & 36 - \underline{\quad} = 3 \times 10 \\
 100 \div 5 = 4 \times \underline{\quad} & 15 \div \underline{\quad} = 3 \times 1 \\
 36 + 2 = 19 \times \underline{\quad} & 6 \times \underline{\quad} = 48 \\
 3 \times 5 = 30 \div \underline{\quad} & 2 \times \underline{\quad} = 100 \\
 5 \times 15 = \underline{\quad} & 42 + 47 = \underline{\quad} \\
 23 - 5 = \underline{\quad} & 31 - 17 = \underline{\quad}
 \end{array}$$

MORE MAGIC

2		4
		8

TOTAL=15

	2	12
	10	

TOTAL=30

15	8	
	12	

TOTAL=36

NUMBER OF MISTAKES _____

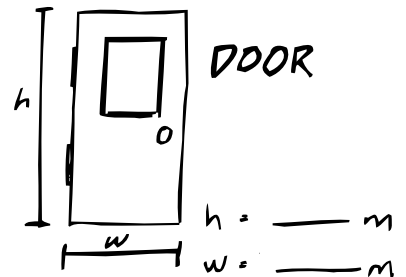
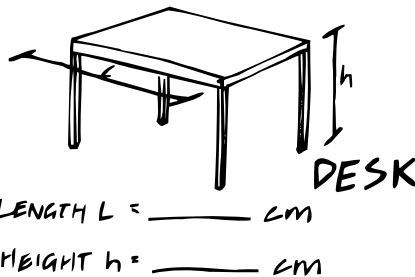
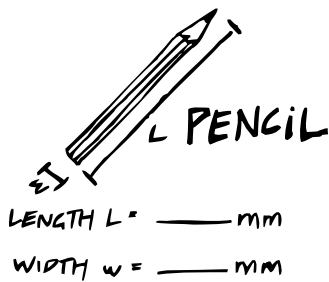
MEASURING LENGTHS

TODAY WE NEED A RULER AND A PIECE OF STRING

A ALL THE SYMBOLS FILL IN THE MISSING WORDS AND NUMBERS!

mm represents _____	_____ mm = 1 centimetre
cm represents _____	_____ cm = 1 metre
m represents _____	_____ m = 1 kilometre
km represents _____	

TRY MEASURING THESE OBJECTS AROUND YOU!



HOW DO I MEASURE UP?

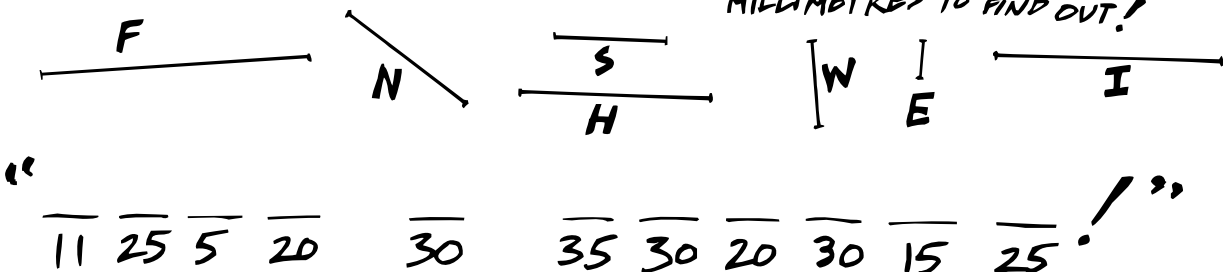
= MY PERSONAL MEASUREMENT CHART =

DATE _____	MY NECK IS _____
TODAY MY HEIGHT IS _____	MY WAIST IS _____
MY SPAN IS _____	MY ARM IS _____
MY CHEST IS _____	MY FOOT IS _____

STRETCH MY IMAGINATION!

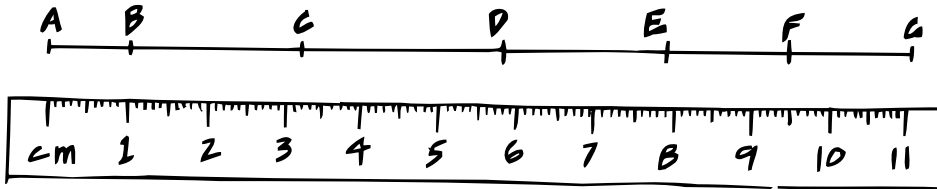
- LENGTH OF THE SCHOOL FENCE. _____
- LENGTH OF THE MAIN SCHOOL BUILDING. _____
- LENGTH OF THE PLAYING FIELD. _____
- LENGTH OF OUR SCHOOL ROAD. _____
- LENGTH OF NEW ZEALAND. _____

HOW LONG UNTIL I GO HOME? MEASURE THESE LINES IN MILLIMETRES TO FIND OUT!



HOW DO YOU MEASURE UP? ...VERY WELL THANK YOU!

MEASURE THE LINE SEGMENTS IN mm. WRITE THE LETTER ABOVE THE CORRECT ANSWER IN THE PUZZLES TO REVEAL THE AUTHORS OF THE BATTY BOOKS! HAVE FUN



- G = LENGTH OF \overline{AB} = ___ mm
- N = LENGTH OF \overline{CD} = ___ mm
- U = LENGTH OF \overline{BD} = ___ mm
- A = LENGTH OF \overline{CE} = ___ mm
- S = LENGTH OF \overline{EF} = ___ mm
- M = LENGTH OF \overline{CG} = ___ mm
- Y = LENGTH OF \overline{DF} = ___ mm
- F = LENGTH OF \overline{AD} = ___ mm

- E = LENGTH OF \overline{DE} = ___ mm
- L = LENGTH OF \overline{BE} = ___ mm
- R = LENGTH OF \overline{CF} = ___ mm
- O = LENGTH OF \overline{BG} = ___ mm
- P = LENGTH OF \overline{AG} = ___ mm
- D = LENGTH OF \overline{BF} = ___ mm
- I = LENGTH OF \overline{DG} = ___ mm

BATTY BOOK TITLES

APOLOGIZING MADE EASY

BY 16 47 37 21 63 16 100 63 63 37

RICE CROPS OF THE WORLD

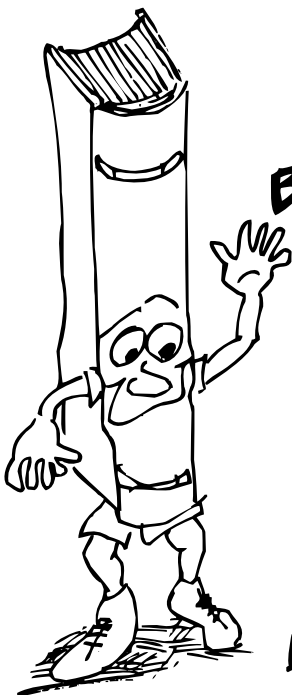
BY 110 47 85 85 37 59 52 21 69 85 16

ARITHMETIC

BY 47 85 47 78 48 110 110 21

ONE, TWO, THREE, WALTZ

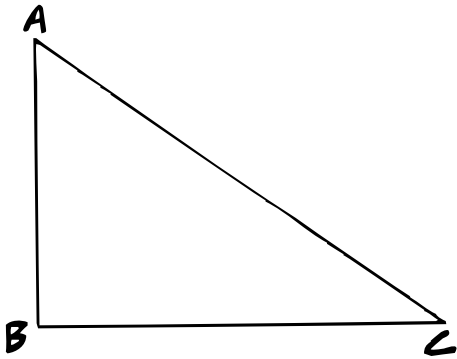
BY 52 78 85 47 26 16 52 26 10



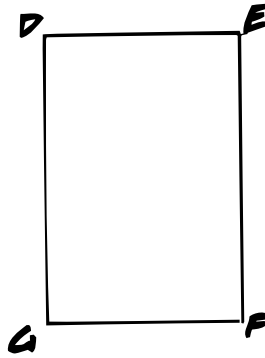
MEET MR. PERRY MITA!



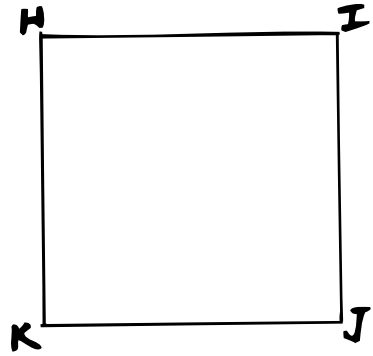
THE DISTANCE AROUND A SHAPE IS CALLED ITS _____
 MEASURE THE SIDES AND FIND THE PERIMETER OF EACH SHAPE.



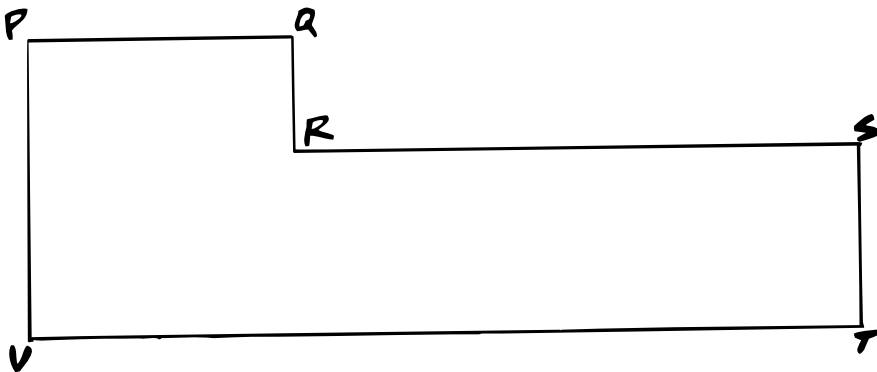
AB = _____ mm
 BC = _____ mm
 CA = _____ mm
 PERIMETER = _____ mm



DE = _____ mm
 EF = _____ mm
 FG = _____ mm
 GD = _____ mm
 PERIMETER = _____ mm



HI = _____ mm
 IJ = _____ mm
 JK = _____ mm
 KH = _____ mm
 PERIMETER = _____ mm

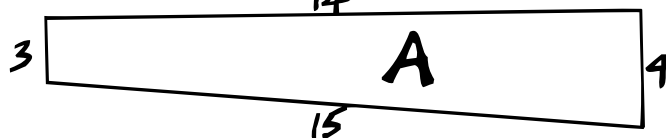
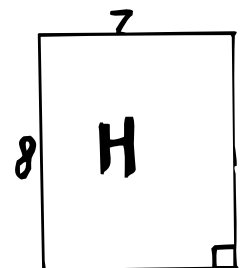
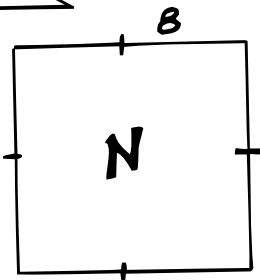
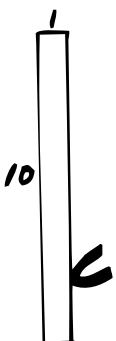
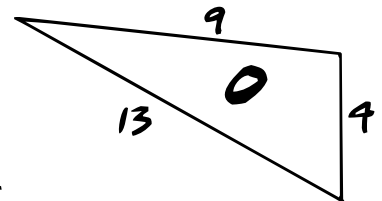
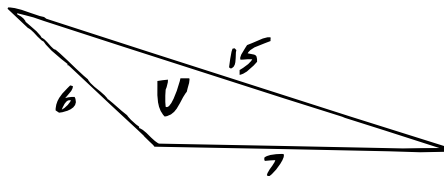
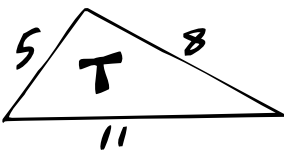


PQ = _____ mm
 QR = _____ mm
 RS = _____ mm
 ST = _____ mm
 TU = _____ mm
 UP = _____ mm
 PERIMETER = _____ mm

WHAT DO WE GET WHEN WE MIX A PEPPER AND A GRAPE?
 CALCULATE THESE PERIMETERS TO FIND THE ANSWER!

'' ''

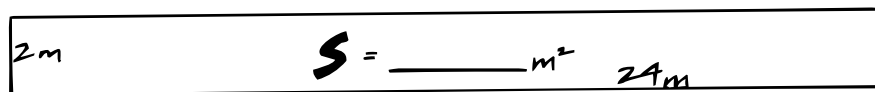
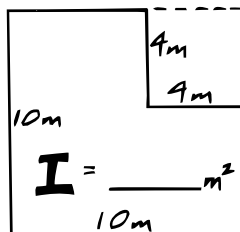
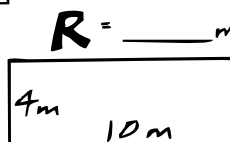
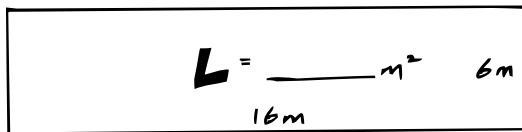
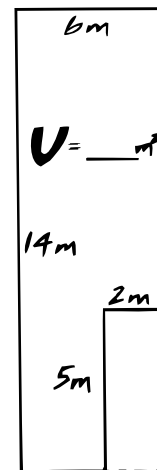
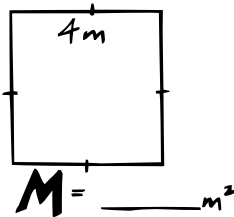
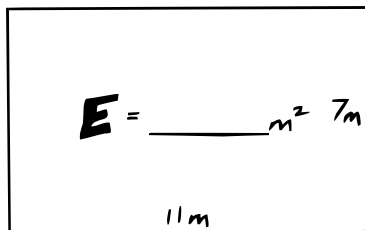
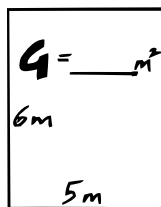
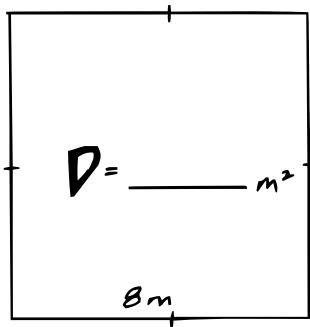
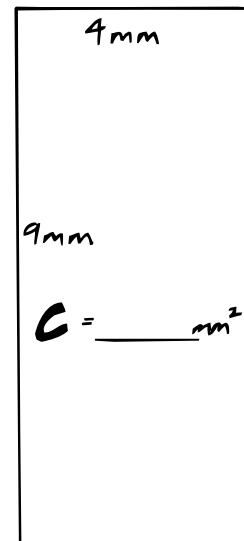
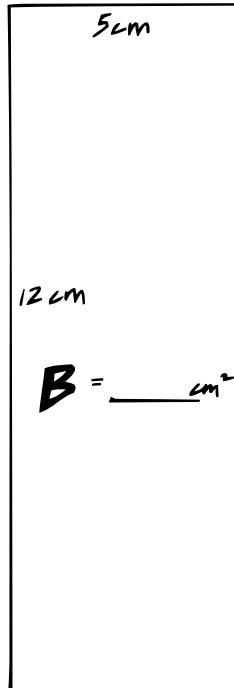
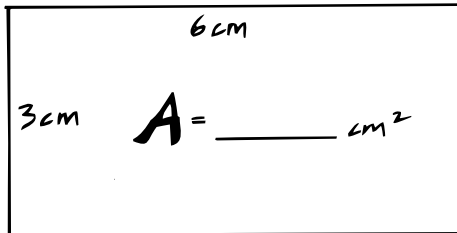
36 30 26 24 22 28 34 34 36 32 24



THE FORMULA FOR THE AREA OF A RECTANGLE IS :

CALCULATE THE AREAS OF THE RECTANGLES BELOW TO DECODE THE ANSWER TO THE CHILLING QUESTION!

WHICH FIRM SUPPLIED FREEZERS TO THE JAIL?

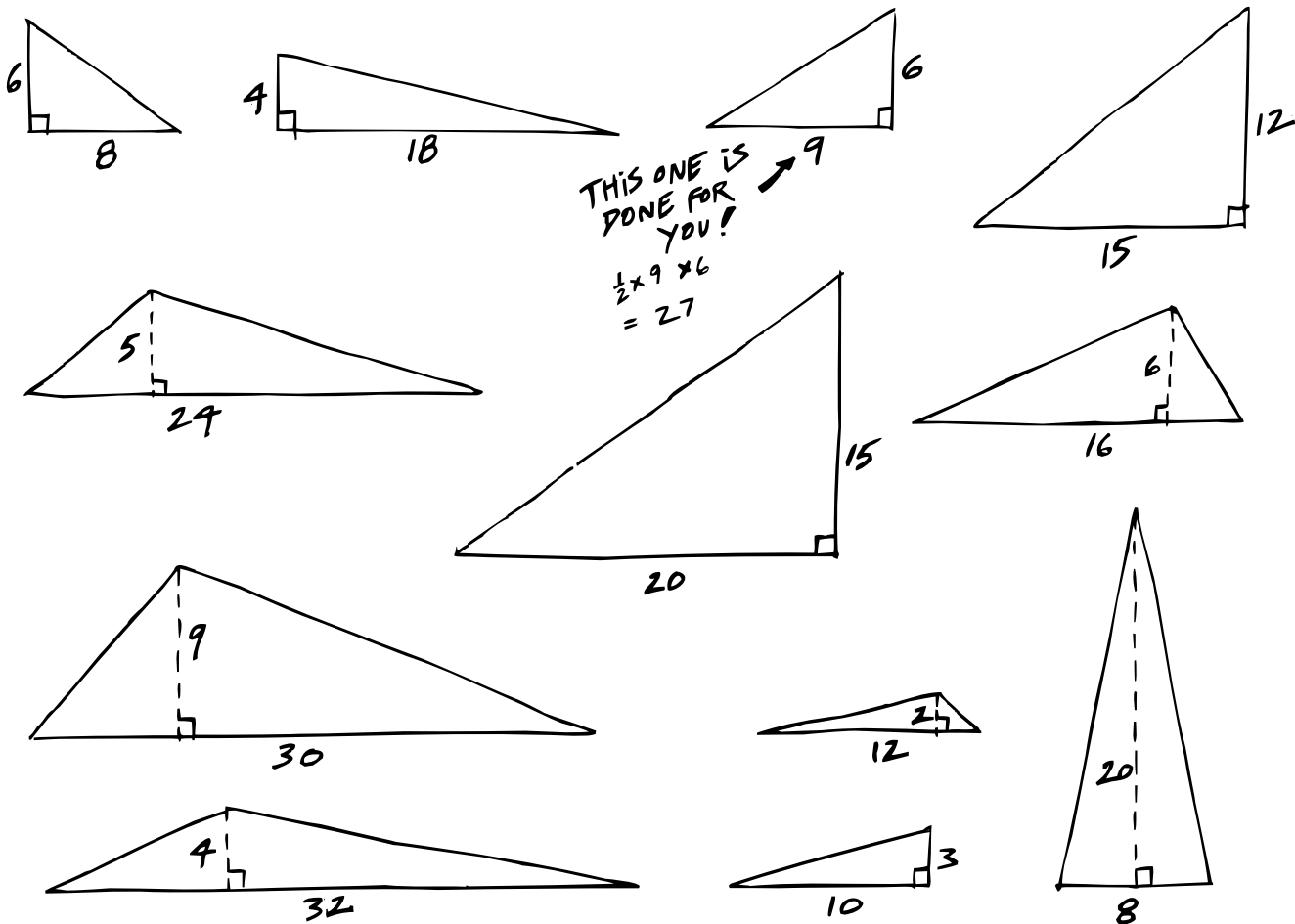


“ _____ ! ”
 84 36 74 60 74 40 30 96 18 40 48 96 84 16 84 45 77 64

A HISTORICAL MYTH!

THE FORMULA FOR THE AREA OF A TRIANGLE IS...

CALCULATE THE AREAS FOR THESE TRIANGLES AND FIND YOUR ANSWER IN THE RECTANGLE BELOW. (THE CORRECT ANSWERS GO ACROSS FROM LEFT TO RIGHT.)
 COLOUR IN EACH CORRECT ANSWER. THE 24 LETTERS LEFT TELL THE MYTH!



P 5	I 3	E 6	Y 9	O 2	U 4	T 7	H 3	E 1	N 5	D 0	A 7
G 2	O 9	A 1	X 3	E 5	R 0	B 4	L 8	A 1	S 6	T 1	Y 5
L 8	O 5	B 2	T 7	V 1	E 4	D 3	O 8	N 0	T 2	R 2	Y 9
P 0	I 6	A 5	N 4	S 6	U 4	G 7	L 2	E 1	G 6	A 0	S 3

"

"

WHIZZ-KIDS WORKSHEET



NIFTY NUMBERS

$$\begin{array}{ll}
 4+13 = \underline{\quad} & 5 \times 6 = \underline{\quad} \\
 20+90 = \underline{\quad} & 90 \times 3 = \underline{\quad} \\
 35-7 = \underline{\quad} & 15 \div 1 = \underline{\quad} \\
 87-22 = \underline{\quad} & 900 \div 30 = \underline{\quad} \\
 105-10 = \underline{\quad} & 8 \times 6 = \underline{\quad} \\
 3 \times 26 = \underline{\quad} & 15 \times 9 = \underline{\quad} \\
 4 \div 1 = \underline{\quad} & 27 \times 3 = \underline{\quad} \\
 258 \div 3 = \underline{\quad} & 45 + 57 = \underline{\quad} \\
 85 + 10 = \underline{\quad} & 27 + 27 = \underline{\quad} \\
 400 \div 20 = \underline{\quad} & 104 \div 2 = \underline{\quad}
 \end{array}$$

EASY EXPRESSIONS

$$\begin{array}{l}
 5c + 4c = \underline{\quad} \\
 2a + 6a = \underline{\quad} \\
 9k + 4k + 2k = \underline{\quad} \\
 4m + 2m = \underline{\quad} \\
 9p - 5p = \underline{\quad} \\
 4x + 2x - 6x = \underline{\quad} \\
 3a + 4a = \underline{\quad} \\
 6c - 2c = \underline{\quad} \\
 9l - 3l = \underline{\quad} \\
 20f + 5f = \underline{\quad}
 \end{array}$$

MORE MAGIC

- FILL IN THE SQUARES SO ALL ROWS COLUMNS & DIAGONALS ADD UP TO THE TOTAL!

4		6
		10

TOTAL=21

5		
	8	
9		

TOTAL=24

	10	
16		8

TOTAL=30

DAY AT THE FAIR



LOLLY POP 50c



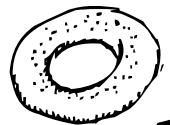
DRINK 70c



CAKE 45c



HOT DOG \$1.50

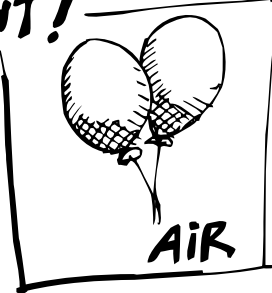
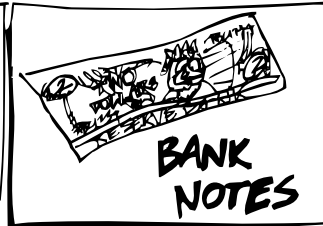


DOUGHNUT \$1

PERSON	HAD	BOUGHT	SPENT	HAD LEFT
RODNEY	\$5	2 HOT DOGS		
EPI	\$2	1 DRINK & 1 DOUGHNUT		
DIANNE	\$3.50	2 LOLLY POPS & 1 CAKE		
MAXWELL	\$10	1 DRINK & 1 CAKE		
CLAUDIA	\$20	3 OF EVERYTHING!!		

NUMBER OF MISTAKES _____

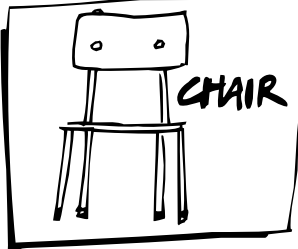
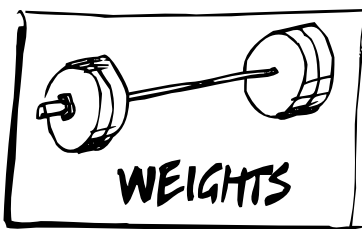
LET'S EXPLORE MASS! TODAY YOU'LL NEED SCALES TO 'WEIGH IN!'
MANY THINGS ARE QUITE LIGHT!



SMALL MASSES ARE MEASURED IN G-----

WHAT I WEIGHED	ESTIMATED MASS (GUESS)	ACTUAL MASS (MEASURED)	HOW CLOSE WAS MY ESTIMATE?
A PEN			
THE DUSTER			
MY LUNCH BOX			
CARDBOARD			
MY SHOE			

OTHER OBJECTS ARE JUST RIGHT!

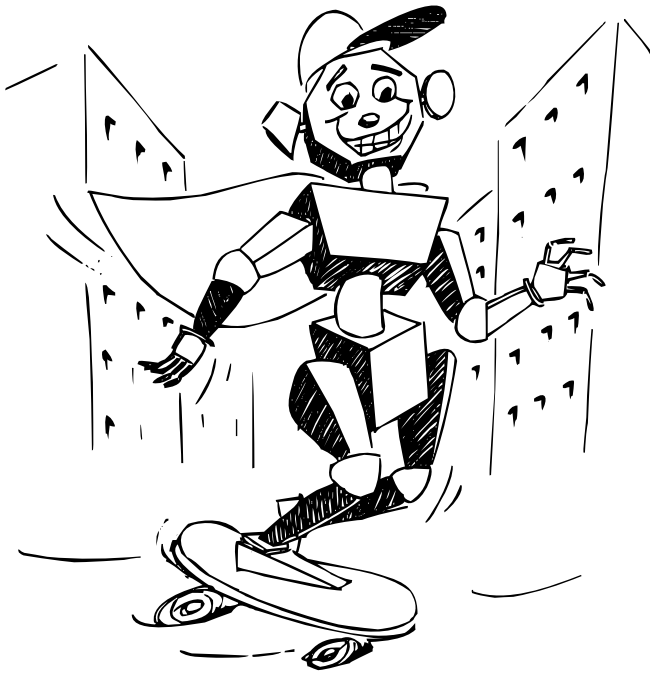


BIG MASSES ARE MEASURED USING K-----

WHAT I WEIGHED	ESTIMATED MASS (GUESS)	ACTUAL MASS (MEASURED)	HOW CLOSE WAS MY ESTIMATE?
MY MATHS BOOK			
MY SCHOOL BAG			
MYSELF			
MY TEACHER			

"WHY DO FISH NEVER KNOW THEIR WEIGHT?
 BECAUSE THEY ALWAYS LOSE THEIR SCALES!"





MATHEMATICS IN MOTION!

SPEED IS _____

— THE FORMULA WE USE TO CALCULATE SPEED IS:

$$\text{SPEED} = \frac{\text{DISTANCE TRAVELLED}}{\text{TIME TAKEN}}$$

VEHICLE	DISTANCE TRAVELLED	TIME TAKEN	SPEED
BMX CYCLE	10 metres	10 seconds	m/s
SKATE BOARD	20 metres	10 seconds	m/s
HONDA 500	80 metres	10 seconds	m/s
TOYOTA CAR	110 metres	10 seconds	m/s
BLUEBIRD BOAT	200 metres	5 seconds	m/s
767 JET	300 metres	5 seconds	m/s
MY FEET			
TEACHERS CAR			

— MAKE SOME MEASUREMENTS YOURSELF

1.			
2.			
3.			

— SOLVE THE RATIO PROBLEMS TO IDENTIFY THE STRONG MATHEMATICIAN WHO SAVED THE BRIDGE!

T $1:2 = _ : 8$ **O** $3:1 = _ : 5$ **M** $1:7 = 3: _$

V $4:1 = 12: _$ **H** $1:8 = 2: _$ **A** $10:1 = _ : 6$






E $1:9 = _ : 45$ **I** $6:1 = _ : 4$ **S** $4:3 = _ : 9$

R $1:5 = 2: _$ **F** $_ : 30 = 100:100$

$\overline{16} \quad \overline{15} \quad \overline{10} \quad \overline{60} \quad \overline{4} \quad \overline{24} \quad \overline{15} \quad \overline{3} \quad \overline{12} \quad \overline{15} \quad \overline{30} \quad \overline{10} \quad \overline{15} \quad \overline{21} \quad \overline{5}$

"FILL-ER-UP-MATE!"

TODAY WE'RE GOING TO MEASURE
 - USE A ONE LITRE MEASURING JUG TO FIND THE
 QUANTITY OF WATER EACH CONTAINER CAN HOLD.

WHAT I MEASURED	ESTIMATE	ACTUAL MEASURE
BOWL 	l	l
POT 	l	l
DRINK BOTTLE 	l	l
BUCKET 	l	l
CUP 	ml	ml
NOW SOME OF MY CHOICE!		
1		
2		
3		
4		
5		

DON'T FORGET THE UNITS!

NOW WRITE 6 LIQUID PRODUCTS YOU HAVE IN YOUR HOME.

- 1 _____ 2 _____ 3 _____
 4 _____ 5 _____ 6 _____

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{aligned}
 16 + 18 &= \underline{\quad} \\
 19 - 11 &= \underline{\quad} \\
 12 \times 12 &= \underline{\quad} \\
 18 \div 6 &= \underline{\quad} \\
 17 + 17 &= \underline{\quad} \\
 15 - 9 &= \underline{\quad} \\
 11 \times 10 &= \underline{\quad} \\
 20 \div 4 &= \underline{\quad} \\
 18 + 15 &= \underline{\quad} \\
 19 + 19 &= \underline{\quad}
 \end{aligned}$$

DANDY DECIMALS

$$\begin{aligned}
 1.4 + 1.3 &= \underline{\quad} \\
 1.6 + 1.2 &= \underline{\quad} \\
 2.4 - 1.3 &= \underline{\quad} \\
 2.6 - 2.6 &= \underline{\quad} \\
 1 - 0.5 &= \underline{\quad} \\
 3 - 0.9 &= \underline{\quad} \\
 7 \times 0.4 &= \underline{\quad} \\
 6 \times 0.8 &= \underline{\quad} \\
 25\% \text{ AS A DECIMAL IS } &\underline{\quad} \\
 40\% \text{ AS A DECIMAL IS } &\underline{\quad}
 \end{aligned}$$

RADICAL ROMANS

$$\begin{aligned}
 \text{VII} &= \underline{\quad} \\
 \text{XII} &= \underline{\quad} \\
 \text{XIV} &= \underline{\quad} \\
 \text{XVIII} &= \underline{\quad} \\
 \text{XXII} &= \underline{\quad} \\
 \underline{\quad} &= 7 \\
 \underline{\quad} &= 11 \\
 \underline{\quad} &= 16 \\
 \underline{\quad} &= 19 \\
 \underline{\quad} &= 24
 \end{aligned}$$



EXTRA EXAMPLES

$$\begin{aligned}
 624 + 300 &= \underline{\quad} \\
 500 + 500 &= \underline{\quad} \\
 400 - 150 &= \underline{\quad} \\
 500 - 194 &= \underline{\quad} \\
 80 \times 5 &= \underline{\quad} \\
 76 \times 10 &= \underline{\quad} \\
 90 \div 9 &= \underline{\quad} \\
 1800 \div 10 &= \underline{\quad} \\
 222 + 555 &= \underline{\quad} \\
 734 - 437 &= \underline{\quad}
 \end{aligned}$$

THE QUINTUS QUIZ

I LEFT HOME AT _____
 IT TOOK _____ MINUTES TO
 GET TO SCHOOL. SCHOOL WENT
 FOR _____ HOURS. SUPPER
 WAS AT _____ TODAY. I WAS
 OUT OF BED FOR _____ HOURS.

- WEDNESDAY -
 OUT OF BED 6:30 a.m.
 LEFT HOME 8:10
 GOT TO SCHOOL 9:00
 SCHOOL FINISHED 3:30
 ARRIVED HOME 4:00
 SUPPERTIME 9:30
 INTO MY BED 10:00

NUMBER OF MISTAKES _____

- M.C. ADDITION'S MATHS RAP!



WORDS CAN BE NUMBERS, THAT'S WHAT I'VE HEARD,
SO WRITE THE NUMBER BESIDE THESE WORDS!



- EIGHTY SIX _____
- THREE HUNDRED AND FIFTY TWO _____
- SEVEN THOUSAND NINE HUNDRED AND FOURTEEN _____
- ONE MILLION _____
- FOUR POINT FIVE _____
- TWO HUNDRED AND SEVEN _____
- FIVE HUNDRED AND NINE _____
- SIX THOUSAND, TWO HUNDRED _____
- NINE THOUSAND AND SIXTY ONE _____
- EIGHT THOUSAND AND FORTY _____
- TEN THOUSAND AND TEN _____
- THREE MILLION TWO HUNDRED AND TEN THOUSAND _____

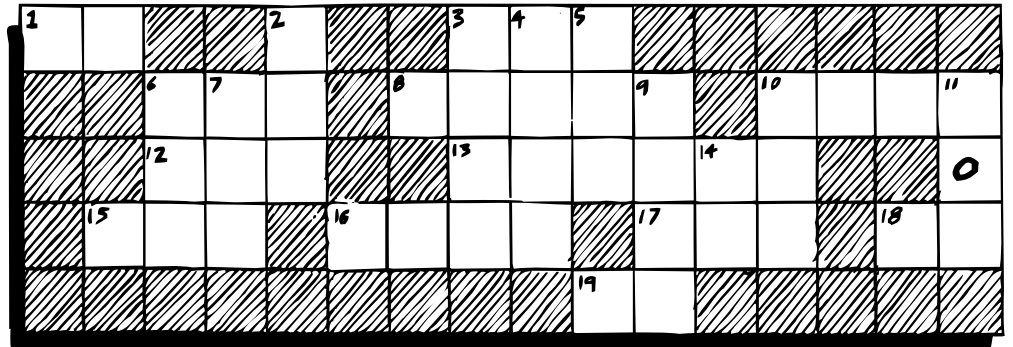
A SUPER CHINESE MEAL

32 48 84 5 32 48 48 84 32 34 44 32 48 5 82 48 46 30 60 84 75 46 84

- | | |
|---|---|
| A | TWENTY TWO ADDED TO FIFTY THREE _____ |
| E | SIX TIMES FOURTEEN _____ |
| F | THE SUM OF SEVEN, EIGHT AND NINETEEN _____ |
| L | THE PRODUCT OF FIVE AND TWELVE _____ |
| N | THE PRODUCT OF TWO, FOUR AND SIX _____ |
| O | THE DIFFERENCE BETWEEN SEVENTY AND THIRTY EIGHT _____ |
| P | ONE HUNDRED AND FIFTY DIVIDED BY FIVE _____ |
| S | THE SUM OF THIRTEEN, THIRTY AND THREE _____ |
| T | THE DIFFERENCE BETWEEN FIFTY ONE AND FORTYSIX _____ |
| U | TWO MORE THAN FOUR TIMES TWENTY _____ |
| W | ONE LESS THAN NINE TIMES FIVE _____ |

CROSS NUMBER

- FILL IN THE NUMBERS GIVEN THE CLUES ACROSS!



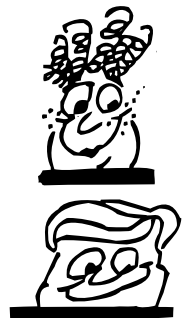
ACROSS - WRITE IN NUMBER

- 1 NINETY FOUR
- 2 THREE
- 3 EIGHT HUNDRED AND FORTY SEVEN
- 6 TWO HUNDRED AND SIXTY
- 8 TWENTY NINE THOUSAND AND THIRTY SEVEN
- 10 NINE THOUSAND NINE HUNDRED AND NINETY NINE
- 12 THREE HUNDRED AND FORTY TWO
- 13 FOUR HUNDRED AND SEVENTY THOUSAND, NINE HUNDRED AND TWENTY ONE
- 15 SIX HUNDRED AND FIFTEEN
- 16 FIVE THOUSAND AND NINE
- 17 TWO HUNDRED AND TWO
- 18 FIFTY EIGHT
- 19 NINETY NINE



DOWN - WRITE USING WORDS

- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 9 _____
- 10 _____
- 11 _____
- 14 _____



... WHAT DID MARG SAY TO PEPPA?



BY COMPLETING THE TABLES BELOW AND THEN DOING THE SUMS, YOU'LL FIND OUT!

NUMBER	1	2	5	6	8	9	12	13	15	16	20	25
SQUARE												

NUMBER	4	9	16	49	100	121	196	1000000
SQUARE ROOT								

A $3^2 + 5 = \underline{\quad}$

I $\sqrt{36} + 10 = \underline{\quad}$

C $2 + 4^2 = \underline{\quad}$

L $6 + \sqrt{81} = \underline{\quad}$

D $7^2 - 29 = \underline{\quad}$

N $\sqrt{144} - 1 = \underline{\quad}$

E $124 - 10^2 = \underline{\quad}$

O $17 - \sqrt{25} = \underline{\quad}$

F $11^2 - 95 = \underline{\quad}$

R $\sqrt{400} - \sqrt{9} = \underline{\quad}$

G $2^2 + 3^2 = \underline{\quad}$

S $\sqrt{144} + 3^2 = \underline{\quad}$

Y $5^2 - 6 = \underline{\quad}$

M $\sqrt{49} + \sqrt{9} = \underline{\quad}$

“

15 16 26 24 16 11 10 19 26 17 16 20 13 24 16 21

17 24 14 15 18 12 12 15 !”

WHIZZ-KIDS WORKSHEET



NIFTY NUMBERS

$$\begin{aligned}
 11 + 14 &= \underline{\quad} \\
 14 - 11 &= \underline{\quad} \\
 12 \times 5 &= \underline{\quad} \\
 16 \div 4 &= \underline{\quad} \\
 13 + 16 &= \underline{\quad} \\
 18 - 12 &= \underline{\quad} \\
 11 \times 10 &= \underline{\quad} \\
 15 \div 5 &= \underline{\quad} \\
 19 + 18 &= \underline{\quad} \\
 17 + 15 &= \underline{\quad}
 \end{aligned}$$

MONEY MIXTURES

$$\begin{aligned}
 15c + 15c &= \underline{\quad} \\
 10c - 6c &= \underline{\quad} \\
 3 \times 10c &= \underline{\quad} \\
 7 \times 20c &= \underline{\quad} \\
 50c + 20c &= \underline{\quad} \\
 50c - 20c &= \underline{\quad} \\
 \$4 + \$6 &= \underline{\quad} \\
 \$9 - \$5 &= \underline{\quad} \\
 \$20 \times 3 &= \underline{\quad} \\
 \$80 \div 4 &= \underline{\quad}
 \end{aligned}$$

VISCOUS VARIABLES

$$\begin{aligned}
 a + a &= \underline{\quad} \\
 2b + b &= \underline{\quad} \\
 c + 2c &= \underline{\quad} \\
 3d + 3d &= \underline{\quad} \\
 3e + 2e &= \underline{\quad} \\
 f - f &= \underline{\quad} \\
 3g - g &= \underline{\quad} \\
 5h - 2h &= \underline{\quad} \\
 5i - 4i &= \underline{\quad} \\
 2j + 2j + 2j &= \underline{\quad}
 \end{aligned}$$

EXTRA EXAMPLES

$$\begin{aligned}
 123 + 100 &= \underline{\quad} \\
 300 + 200 &= \underline{\quad} \\
 100 - 75 &= \underline{\quad} \\
 200 - 50 &= \underline{\quad} \\
 40 \times 6 &= \underline{\quad} \\
 70 \times 8 &= \underline{\quad} \\
 40 \div 5 &= \underline{\quad} \\
 80 \div 4 &= \underline{\quad} \\
 333 + 333 &= \underline{\quad} \\
 625 - 125 &= \underline{\quad}
 \end{aligned}$$

THE QUINTUS QUIZ

- HOW MANY DAYS IN JULY _____
- WHAT DAY IS JUNE 3rd _____
- WHAT DATE IS THE FOURTH TUESDAY OF JULY _____
- WHAT DATE IS THE SECOND FRIDAY OF JUNE _____
- HOW MANY MONDAYS IN JULY _____

JUNE						
M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

JULY						
M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

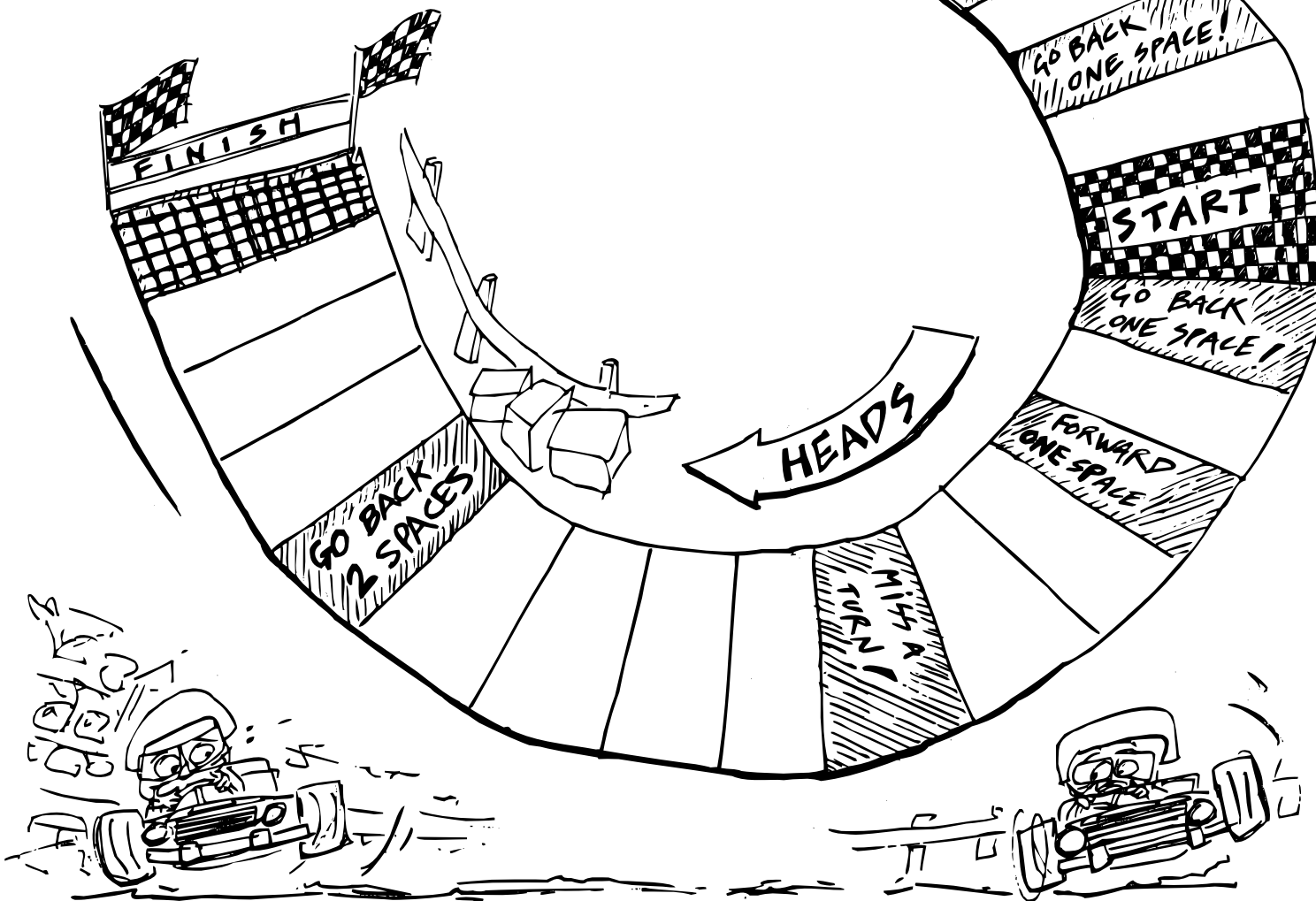
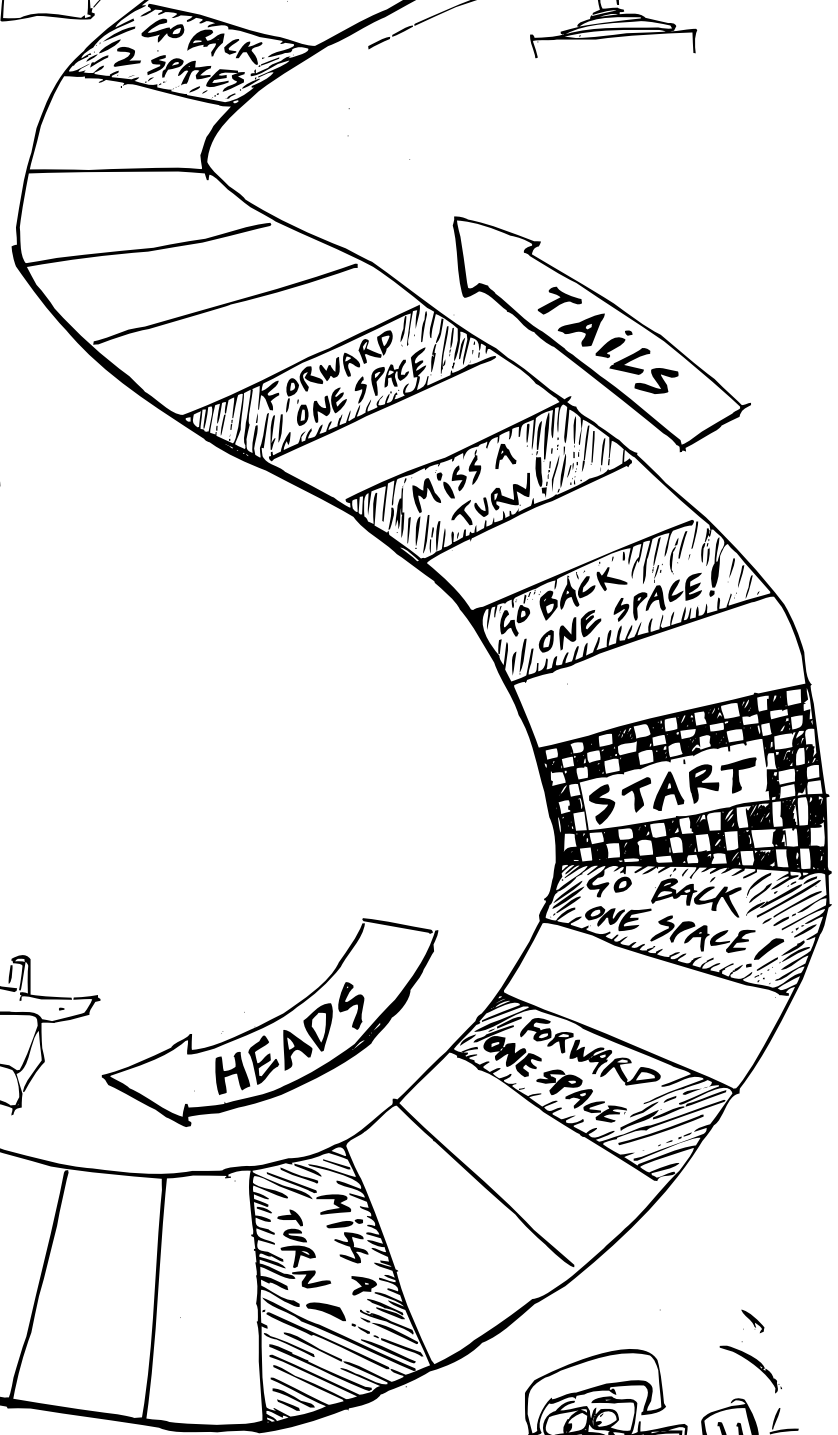
NUMBER OF MISTAKES _____

THE GREAT INTEGERNAPOLIISS 500!

INSTRUCTIONS

- GET A DICE, A COIN, AND COUNTERS FOR EACH PLAYER.
- FLIP THE COIN AND TOSS THE DICE EVERY TIME
- THE COIN GIVES THE DIRECTION
- THE DICE GIVES THE AMOUNT TO MOVE.
- A PLAYER WINS BY CROSSING EITHER FINISH LINE FIRST. EXACT NUMBER NOT NEEDED.

(ALTERNATIVELY, TOSS THE COIN ONLY ONCE AND CONTINUE IN THAT DIRECTION.)



- UP AND DOWN -

HOW MANY FLOORS DID THE LIFT TRAVEL AND WHICH WAY WAS IT GOING?

e.g.

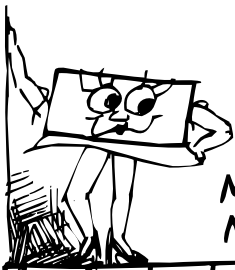
FROM THIS FLOOR	TO THIS FLOOR	HOW MANY? WHICH WAY?
0	1	1 UP
1	5	
5	8	
8	4	
4	3	
3	0	
0	2	
2	10	
10	6	
6	5	
5	0	



HERE IS MT. COOK'S DAILY TEMPERATURE (°C) LOG SHEET. FILL IN THE GAPS!



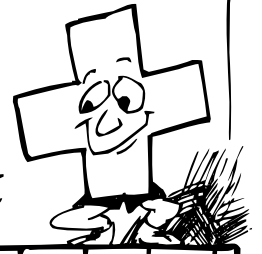
START OF THE DAY	CHANGE IN TEMPERATURE	MIDDAY RECORDING
4°	RISE 6°	
3°	FALL 5°	
5°	RISE 2°	
1°	FALL 7°	
2°		10°
4°		0°
6°		-1°
-3°		5°
	RISE 10°	0°
	FALL 3°	-7°
	RISE 4°	1°
-2	FALL 1°	



MAXINE
MINUS

INTEGERS

PETE
POSITIVE



$$\begin{aligned} -8 + 2 &= \\ 6 + 8 &= \\ 5 - 9 &= \\ -9 + 1 &= \\ -3 - 1 &= \\ -1 + 5 &= \\ -3 + 6 &= \\ 9 - 2 &= \\ -3 + 3 &= \end{aligned}$$

$$\begin{aligned} -5 + 9 &= \\ -7 - 3 &= \\ 8 - 8 &= \\ -1 - 6 &= \\ -20 + 7 &= \\ -9 - 9 &= \\ -7 + 1 &= \\ 2 - 9 &= \\ -9 - 4 &= \end{aligned}$$

$$\begin{aligned} -7 + 3 &= \\ 13 + 4 &= \\ -7 - 8 &= \\ 4 - 8 &= \\ -6 + 9 &= \\ -10 + 3 &= \\ 6 - 7 &= \\ -9 + 6 &= \\ -3 + 5 &= \end{aligned}$$

$$\begin{aligned} 2 - 5 &= \\ -7 + 9 &= \\ 8 - 5 &= \\ -1 - 2 &= \\ -8 + 9 &= \\ -6 - 9 &= \\ 7 - 9 &= \\ -5 + 3 &= \\ -8 - 9 &= \end{aligned}$$

"HOW MANY PEAS IN A PIE?"
 — SHADE IN ALL THE MISTAKES TO FIND OUT!

+	-4	-7	2	5	-6	4	1	-3	-5	6	-1	7
1	-3	-6	3	6	-5	5	2	-2	-6	4	0	8
-3	7	-4	5	2	-9	1	-2	-6	2	3	-9	4
-5	9	-12	7	0	-11	-1	-4	-8	0	11	-6	2
6	10	-1	4	11	0	10	7	3	11	12	5	13
-1	3	-5	3	4	-7	3	0	-4	-9	7	-2	6
7	3	0	9	12	-2	10	12	4	2	13	6	14
-4	-8	-11	-2	1	10	0	5	-7	-9	2	-5	3
-7	-11	-14	-5	-2	12	-3	8	-10	-12	-1	8	10
2	-2	-5	4	7	8	6	2	-1	-3	8	11	8
5	1	-2	7	10	10	9	8	2	0	11	-4	-2

**THIS
PUZZLE
MIGHT
NEED A
CALCULATOR!**



- A QUESTION OF MATHS -

"IT'S EXCELLENT FUN TO ANSWER SUMS!"

"YEAH!"



D. J. ELAINE
EQUAL

M.L. ADDITION

$-16 + 17 =$

$-9 + 37 =$

$52 - 83 =$

$-96 + 16 =$

$-113 - 56 =$

$-34 - 7 + 11 =$

$50 - 18 - 23 =$

$-8 - 12 + 83 =$

$40 - 19 - 12 =$

$44 - 53 + 60 =$

$-75 - 57 =$

$13 - 12 =$

$28 - 3 =$

$-6 - 7 =$

$-11 + 11 =$

$-11 - 11 =$

$-9 - 10 =$

$-34 + 18 =$

$-31 - 7 =$

$6 - 13 =$

$-22 - 25 =$

$23 - 47 =$

$-50 - 72 =$

$-17 - 26 =$

$-14 - 21 =$

$26 - 12 =$

$-14 - 21 =$

$30 + 41 =$

- MATHS QUESTIONS YOU WERE ALWAYS AFRAID TO ASK!

SOLVE THE SUMS & WRITE THE LETTER ABOVE THE ANSWERS IN THE CODE.

WHAT HAPPENED TO THE PLANT IN THE MATHS ROOM?

$\overline{-7}$	$\overline{-23}$	$\overline{-13}$	$\overline{-15}$	$\overline{4}$	$\overline{-8}$	$\overline{5}$	$\overline{29}$	$\overline{-9}$	$\overline{1}$	$\overline{-15}$	$\overline{4}$	$\overline{-15}$	$\overline{22}$	$\overline{22}$	$\overline{-23}$	$\overline{5}$
-----------------	------------------	------------------	------------------	----------------	-----------------	----------------	-----------------	-----------------	----------------	------------------	----------------	------------------	-----------------	-----------------	------------------	----------------

WHY WASN'T DORIS IN THE MATHS CLASS?

$\overline{5}$	$\overline{-4}$	$\overline{4}$	$\overline{-8}$	$\overline{1}$	$\overline{5}$	$\overline{5}$	$\overline{-9}$	$\overline{-6}$	$\overline{-8}$	$\overline{-4}$	$\overline{4}$	$\overline{-15}$	$\overline{4}$	$\overline{4}$	$\overline{10}$	$\overline{5}$	$\overline{4}$
----------------	-----------------	----------------	-----------------	----------------	----------------	----------------	-----------------	-----------------	-----------------	-----------------	----------------	------------------	----------------	----------------	-----------------	----------------	----------------

WHEN DOES $5 + 5 = 12$?

$\overline{-8}$	$\overline{-4}$	$\overline{4}$	$\overline{-24}$	$\overline{9}$	$\overline{22}$	$\overline{-9}$	$\overline{-15}$	$\overline{-4}$	$\overline{22}$	$\overline{-6}$	$\overline{4}$	$\overline{-8}$	$\overline{22}$	$\overline{-15}$	$\overline{-2}$
-----------------	-----------------	----------------	------------------	----------------	-----------------	-----------------	------------------	-----------------	-----------------	-----------------	----------------	-----------------	-----------------	------------------	-----------------

$\overline{-7}$	$\overline{5}$	$\overline{-8}$	$\overline{-15}$	$\overline{22}$	$\overline{-24}$	$\overline{-13}$
-----------------	----------------	-----------------	------------------	-----------------	------------------	------------------

L $30 - 20 =$

K $-7 + 5 =$

M $-6 - 0 =$

Y $5 + 4 =$

N $-6 - 18 =$

H $-15 + 11 =$

O $-3 + 25 =$

A $-3 + 4 =$

U $10 - 19 =$

Q $10 + 19 =$

S $17 - 12 =$

W $-5 - 3 =$

E $-13 + 17 =$

R $-9 - 6 =$

G $7 - 20 =$

T $-15 - 8 =$

I $-3 - 4 =$

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$13 + 12 = \underline{\quad}$

$13 - 12 = \underline{\quad}$

$11 \times 5 = \underline{\quad}$

$12 \div 4 = \underline{\quad}$

$14 + 10 = \underline{\quad}$

$14 - 10 = \underline{\quad}$

$12 \times 7 = \underline{\quad}$

$16 \div 8 = \underline{\quad}$

$15 + 19 = \underline{\quad}$

$17 + 11 = \underline{\quad}$

TRENDY TABLES

$6 \times 2 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

$6 \times 4 = \underline{\quad}$

$6 \times \underline{\quad} = 36$

$6 \times \underline{\quad} = 42$

$6 \times \underline{\quad} = 48$

$6 \times 10 = \underline{\quad}$

$6 \times 11 = \underline{\quad}$

$6 \times 12 = \underline{\quad}$

$6 \times \underline{\quad} = 78$



SOFT SUBSTITUTES

$a = 10, a + 4 = \underline{\quad}$

$b = 12, b + 11 = \underline{\quad}$

$c = 11, c - 2 = \underline{\quad}$

$d = 13, d - 4 = \underline{\quad}$

$e = 15, 11 + e = \underline{\quad}$

$f = 14, 19 - f = \underline{\quad}$

$g = 8, 12g = \underline{\quad}$

$h = 16, 2h = \underline{\quad}$

$i = 11, 3i = \underline{\quad}$

$j = 20, 5j = \underline{\quad}$

EXTRA EXAMPLES

$12 \text{ ADDED TO } 21 \text{ IS } \underline{\quad}$

$9 \text{ TIMES } 30 \text{ IS } \underline{\quad}$

$\$10.35 + \$12.45 = \underline{\quad}$

$\$11.60 + \$17.90 = \underline{\quad}$

$975 = \underline{\quad} + 70 + \underline{\quad}$

$800 + 60 + 6 = \underline{\quad}$

$333 + 444 = \underline{\quad}$

$555 + 222 = \underline{\quad}$

$450 - 170 = \underline{\quad}$

$369 - 265 = \underline{\quad}$

THE QUINTUS QUIZ

-FIND THE COST FOR...

1 PARENT AND 1 CHILD _____

1 PARENT AND 4 CHILDREN _____

2 PARENTS AND 1 CHILD _____

2 PARENTS AND 4 CHILDREN _____

3 PARENTS AND 3 CHILDREN _____



NUMBER OF MISTAKES _____

STARTERS

A FEAST OF TASTY PRODUCTS

$-6 \times -6 =$	$-7 \times -6 =$	$-5 \times -7 =$	$3 \times -4 =$
$9 \times -12 =$	$-10 \times 10 =$	$-3 \times -4 =$	$3 \times -7 =$
$-12 \times -9 =$	$-6 \times 7 =$	$-5 \times -5 =$	$-11 \times -4 =$
$-10 \times 11 =$	$7 \times -6 =$	$-9 \times 12 =$	$5 \times -7 =$
	$-10 \times -11 =$	$-3 \times -7 =$	$12 \times -6 =$

CANNIBAL CODES! SOLVE THESE PROBLEMS TO ANSWER THE QUESTIONS!

$M \begin{array}{r} -11 \\ \times 8 \\ \hline \end{array}$	$F \begin{array}{r} -9 \\ \times -6 \\ \hline \end{array}$	$G \begin{array}{r} -4 \\ \times 8 \\ \hline \end{array}$	$D \begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$	$Q \begin{array}{r} -5 \\ \times -8 \\ \hline \end{array}$
$Y \begin{array}{r} -7 \\ \times 2 \\ \hline \end{array}$	$R \begin{array}{r} -9 \\ \times -5 \\ \hline \end{array}$	$N \begin{array}{r} 8 \\ \times -3 \\ \hline \end{array}$	$I \begin{array}{r} -14 \\ \times 5 \\ \hline \end{array}$	$U \begin{array}{r} -13 \\ \times 7 \\ \hline \end{array}$
$P \begin{array}{r} -4 \\ \times -9 \\ \hline \end{array}$	$H \begin{array}{r} 12 \\ \times -7 \\ \hline \end{array}$	$E \begin{array}{r} -15 \\ \times 6 \\ \hline \end{array}$	$K \begin{array}{r} -20 \\ \times -4 \\ \hline \end{array}$	$O \begin{array}{r} 7 \\ \times -7 \\ \hline \end{array}$
$T \begin{array}{r} -14 \\ \times 2 \\ \hline \end{array}$	$S \begin{array}{r} -12 \\ \times -2 \\ \hline \end{array}$	$A \begin{array}{r} 15 \\ \times -5 \\ \hline \end{array}$	$B \begin{array}{r} -5 \\ \times -12 \\ \hline \end{array}$	$V \begin{array}{r} -23 \\ \times 3 \\ \hline \end{array}$

WHAT IS A CANNIBAL'S FAVOURITE FOOD?

— — — — — — — — — —
60 -75 80 -90 56 60 -90 -70 -24 -32 24



WHAT DID THE CANNIBAL SAY WHEN HE SAW THE MAN ASLEEP?

— — — — — — — — — — — — — — —
-75 -84 60 45 -90 -75 80 54 -75 24 -28 -70 -24 60 -90 56

HOW DO CANNIBALS COOK SMALL PEOPLE AND COBRAS?

— — — — — — — — — — — — — — — — — — — —
-75 24 24 -24 -75 80 -90 -75 -24 56 36 -14 -32 -88 -14 36 -70 -90

- DIVIDING INTEGERS -

POSITIVE ÷ POSITIVE = _____

$9 \div 3 =$	$16 \div 4 =$	$35 \div 7 =$	$48 \div 6 =$
$\frac{30}{6} =$	$\frac{25}{5} =$	$\frac{40}{8} =$	$\frac{36}{4} =$

POSITIVE ÷ NEGATIVE = _____

$12 \div -2 =$	$20 \div -4 =$	$24 \div -6 =$	$32 \div -4 =$
$30 \div -3 =$	$45 \div -5 =$	$56 \div -7 =$	$21 \div -3 =$
$27 \div -9 =$	$64 \div -8 =$	$12 \div -1 =$	$14 \div -7 =$

NEGATIVE ÷ POSITIVE = _____

$-48 \div 6 =$	$-32 \div 8 =$	$-18 \div 2 =$	$-27 \div 3 =$
$-21 \div 7 =$	$-60 \div 5 =$	$-24 \div 3 =$	$-32 \div 4 =$
$-14 \div 1 =$	$-36 \div 4 =$	$-63 \div 9 =$	$-56 \div 8 =$

NEGATIVE ÷ NEGATIVE = _____

$-10 \div -10 =$	$-9 \div -9 =$	$-8 \div -8 =$	$-40 \div -8 =$
$-28 \div -4 =$	$-20 \div -5 =$	$-18 \div -6 =$	$-8 \div -4 =$
$\frac{-15}{-3} =$	$\frac{-16}{-2} =$	$\frac{-24}{-2} =$	$\frac{-27}{-3} =$

WHAT DID THE ASTROLOGER SAY TO THE YOUNG LOVERS?

TO FIND THE ANSWER COMPLETE THESE SUMS!

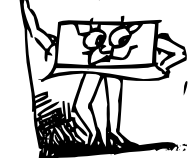
G $\frac{-35}{5} =$	R $\frac{44}{-11} =$	N $\frac{-50}{10} =$	O $\frac{-96}{-12} =$
L $-81 \div 9 =$	A $32 \div -4 =$	T $-72 \div -8 =$	E $-12 \div 12 =$
I $\frac{-12}{-3} =$	U $\frac{100}{20} =$	V $\frac{0}{-5} =$	M $\frac{49}{7} =$
S $-60 \div -6 =$	P $-4 \div -4 =$	H $30 \div -3 =$	

“

$\frac{10}{10}$	$\frac{-8}{4}$	$\frac{7}{7}$	$\frac{-1}{-1}$	$\frac{10}{4}$	$\frac{-7}{-7}$	$\frac{-5}{-5}$	$\frac{10}{10}$	$\frac{-7}{-7}$	$\frac{4}{4}$	$\frac{0}{0}$	$\frac{-1}{-1}$	$\frac{9}{9}$	$\frac{-10}{-10}$	$\frac{-1}{-1}$
-----------------	----------------	---------------	-----------------	----------------	-----------------	-----------------	-----------------	-----------------	---------------	---------------	-----------------	---------------	-------------------	-----------------

$\frac{1}{1}$	$\frac{8}{8}$	$\frac{10}{10}$	$\frac{4}{4}$	$\frac{9}{9}$	$\frac{4}{4}$	$\frac{0}{0}$	$\frac{-1}{-1}$	$\frac{-4}{-4}$	$\frac{-1}{-1}$	$\frac{10}{10}$	$\frac{5}{5}$	$\frac{-9}{-9}$	$\frac{9}{9}$
---------------	---------------	-----------------	---------------	---------------	---------------	---------------	-----------------	-----------------	-----------------	-----------------	---------------	-----------------	---------------

!”



PIRATE PRODUCTS

$8 \times -5 =$

$-2 \times -7 =$

$4 \times 4 =$

$-7 \times -7 =$

$-8 \times 6 =$

$3 \times 7 =$

$-3 \times -9 =$

$9 \times 10 =$

$8 \times 9 =$

$5 \times 9 =$

$-3 \times 10 =$

$6 \times 6 =$

$7 \times -12 =$

$-16 \times -2 =$

$5 \times -4 =$

$-10 \times -6 =$

$-5 \times -5 =$

$17 \times -1 \times 1 =$

$-9 \div 3 =$

$-28 \div 4 =$

$45 \div 3 =$

$26 \div 2 =$

$-44 \div -11 =$

$12 \div -6 =$

$-80 \div -10 =$

$-24 \div 1 =$

$30 \div 5 =$

$77 \div 7 =$

$-36 \div -4 =$

$-20 \div -20 =$

$90 \div 5 =$

$22 \div -1 =$

$-60 \div 6 =$

$-96 \div -8 =$

$250 \div -5 =$

$0 \div -4 =$

NOW SOLVE THESE PROBLEMS AND SHADE IN ALL THE BOXES WITH ANY OF THE CORRECT ANSWERS!

$-6 \times 5 =$

$-4 \times -8 =$

$3 \times -12 =$

$15 \times 7 =$

$-4 \times -9 =$

$-8 \times -14 =$

$-6 \times -16 =$

$5 \times -20 =$

$-20 \div 4 =$

$-84 \div 12 =$

$-28 \div -7 =$

$-81 \div -9 =$

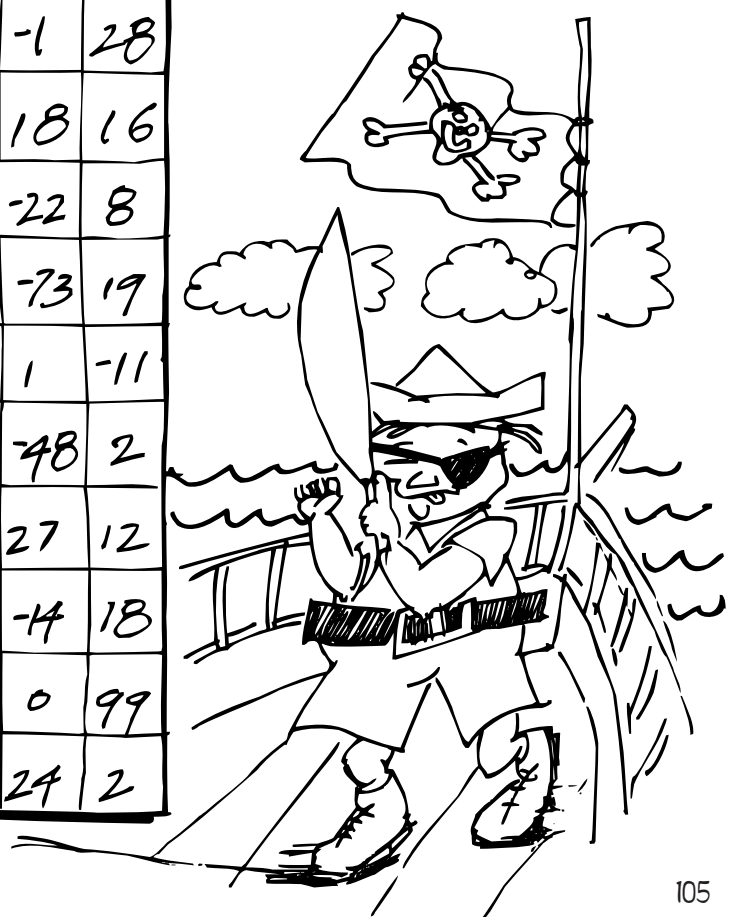
$-15 \div 5 =$

$39 \div -3 =$

$51 \div -3 =$

$51 \div -17 =$

15	-10	0	14	44	-30	13	40	-1	28
8	-2	55	75	32	16	105	14	18	16
1	74	19	42	33	-36	15	12	-22	8
2	29	26	47	-6	36	-76	6	-73	19
11	-10	15	1	14	112	29	15	1	-11
2	20	10	0	-2	96	2	12	-48	2
-12	52	14	4	89	-3	-6	-5	27	12
50	49	-1	9	60	-17	-1	-7	-14	18
18	8	12	0	-100	26	-13	1	0	99
0	-16	21	22	18	-1	14	0	24	2





- INTO EVERYTHING -
D.J. ELAINE EQUAL
HAS THESE SUMS FOR YOU TO SOLVE!
SO GO TO IT!

$11 + 7 =$	$6 + 4 =$	$-6 + 4 =$	$-6 - 4 =$
$-8 + 8 =$	$-11 + 7 =$	$-11 - 7 =$	$8 - 8 =$
$-13 - 6 =$	$-8 - 8 =$	$13 - 6 =$	$-13 + 6 =$
$-12 + 3 =$	$5 - 5 =$	$-5 + 5 =$	$-5 - 5 =$
$-8 - 2 =$	$-7 - 2 =$	$4 - 1 =$	$-7 - 3 =$
$-9 - 9 =$	$-10 + 1 =$	$-9 + 9 =$	$9 - 9 =$
$40 \div 8 =$	$-2 - 2 =$	$-2 + 2 =$	$2 - 2 =$
$-50 \div 5 =$	$-40 \div 8 =$	$40 \div -8 =$	$50 \div 5 =$
$-60 \div -12 =$	$50 \div -5 =$	$-60 \div 12 =$	$60 \div 12 =$
	$-100 \div 4 =$	$100 \div -4 =$	$-100 \div -4 =$

WHAT DID D.J. ELAINE EQUAL SAY WHEN SHE LOOKED IN HER PIGGY BANK. SHADE IN ALL THE SQUARES THAT CONTAIN A MISTAKE TO FIND OUT!

X	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5
-8	42	-40	24	24	-16	-8	0	8	-16	24	-32	-40
-7	42	-35	28	21	-14	7	0	7	-14	21	-28	-35
-6	36	-30	24	18	-12	6	0	6	-12	18	-24	-30
-5	-30	-25	-20	15	-10	-5	0	5	10	15	-20	-25
-4	24	20	16	12	8	4	R	-4	-8	-12	-16	-20
-3	18	15	12	9	6	3	R	-3	-6	-9	-12	-15
-2	-12	10	8	6	-4	2	0	-2	-4	6	-2	10
-1	-6	-5	4	-3	-2	1	0	-1	-2	-3	4	-5
0	-6	0	-4	0	-2	0	0	0	0	0	4	0
1	6	-5	-4	-3	2	-1	0	1	2	3	-4	5



- SIGNS IN OUR TIMES -

TIME YOURSELF FOR THIS PAGE!

HELP MAXINE MINUS TO WRITE THESE NUMBERS IN ORDER, SMALLEST THROUGH TO LARGEST!

5	8	1	7	4	_____
6	-4	-5	-8	0	_____
-3	2	8	0	-4	_____
-7	5	7	-2	3	_____
0	-6	-4	-8	1	_____
3	-3	8	1	-1	_____



CALCULATE BY - ADDING & SUBTRACTING

$-6 + 5 =$	$-7 - 2 =$	$-8 - 5 =$	$-9 + 4 =$
$-12 + 6 =$	$-3 + 7 =$	$-2 - 6 =$	$-8 + 9 =$
$-1 + 1 =$	$9 - 6 =$	$6 - 9 =$	$8 - 12 =$
$-7 - 8 =$	$-12 - 4 =$	$6 + 5 =$	$-4 + 2 =$
$-8 + 3 =$	$-4 + 9 =$	$-13 - 8 =$	$-7 + 13 =$

- DIVIDING

$40 \div 5 =$	$-50 \div 5 =$	$60 \div -5 =$	$39 \div -3 =$
$-69 \div 3 =$	$-96 \div -3 =$	$-24 \div 4 =$	$48 \div -4 =$
$-72 \div -4 =$	$28 \div -7 =$	$-56 \div -8 =$	$-48 \div 6 =$

- MULTIPLYING

$10 \times -4 =$	$-8 \times -5 =$	$-7 \times 3 =$	$-6 \times 9 =$
$-9 \times -2 =$	$8 \times -8 =$	$-8 \times -3 =$	$0 \times -1 =$
$-4 \times -5 =$	$7 \times -8 =$	$-4 \times -7 =$	$6 \times -12 =$

USE A $>$ OR $<$ SIGN TO MAKE THESE SENTENCES TRUE!

$7 \underline{\quad} 5$	$9 \underline{\quad} -2$	$-3 \underline{\quad} 6$	$-7 \underline{\quad} 7$
$4 \underline{\quad} -3$	$7 \underline{\quad} -8$	$5 \underline{\quad} 2$	$-6 \underline{\quad} -4$

TIME TAKEN _____

NUMBER CORRECT _____

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$17 + 14 = \underline{\quad}$

$18 - 11 = \underline{\quad}$

$15 \times 6 = \underline{\quad}$

$16 \div 4 = \underline{\quad}$

$18 + 13 = \underline{\quad}$

$13 - 12 = \underline{\quad}$

$12 \times 11 = \underline{\quad}$

$15 \div 5 = \underline{\quad}$

$19 + 16 = \underline{\quad}$

$13 + 17 = \underline{\quad}$



17

FANTASTIC FRACTIONS

$\frac{1}{2} \text{ OF } 6 = \underline{\quad}$

$\frac{1}{2} \text{ OF } 10 = \underline{\quad}$

$\frac{1}{2} \text{ OF } 12 = \underline{\quad}$

$\frac{1}{2} \text{ OF } 18 = \underline{\quad}$

$\frac{1}{4} \times \frac{1}{4} = \underline{\quad}$

$\frac{2}{7} \times \frac{5}{9} = \underline{\quad}$

$\frac{1}{4} + \frac{1}{4} = \underline{\quad}$

$\frac{3}{5} + \frac{2}{5} = \underline{\quad}$

$\frac{1}{4} - \frac{1}{4} = \underline{\quad}$

$\frac{4}{5} - \frac{3}{5} = \underline{\quad}$

MIGHTY METRICS

$70 \text{ sec} + 50 \text{ sec} = \underline{\quad}$

$38 \text{ sec} + 26 \text{ sec} = \underline{\quad}$

$69 \text{ m} - 49 \text{ m} = \underline{\quad}$

$43 \text{ km} - 27 \text{ km} = \underline{\quad}$

$1000 \text{ g} = \underline{\quad} \text{ kg}$

$5000 \text{ g} = \underline{\quad} \text{ kg}$

$\underline{\quad} \text{ mg} = 2 \text{ g}$

$\underline{\quad} \text{ mg} = 2.5 \text{ g}$

$\underline{\quad} \text{ cm} = 3 \text{ m}$

$\underline{\quad} \text{ cm} = 3.5 \text{ m}$

EXTRA EXAMPLES

$30 \text{ DAYS} = \underline{\quad} \text{ MONTH}$

$\underline{\quad} \text{ MINUTES IN } 1 \text{ HOUR}$

$1.4 + 1.3 = \underline{\quad}$

$2.7 - 1.5 = \underline{\quad}$

$0.4 \times 6 = \underline{\quad}$

$1.2 \div 4 = \underline{\quad}$

$6, 12, \underline{\quad}, 48, \underline{\quad}$

$975 + 579 = \underline{\quad}$

$420 - 24 = \underline{\quad}$

$5^2 = \underline{\quad}$

THE QUINTUS QUIZ

- FIND THE COST OF...

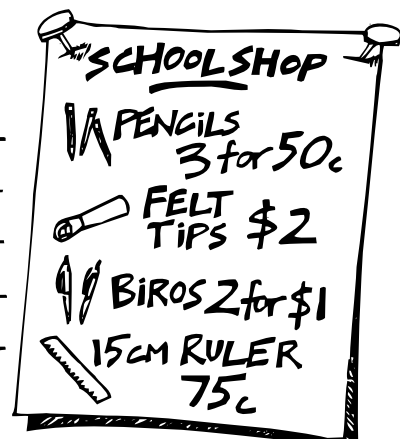
10 FELT TIPS $\underline{\hspace{2cm}}$

12 PENCILS $\underline{\hspace{2cm}}$

10 RULERS $\underline{\hspace{2cm}}$

20 BIROS $\underline{\hspace{2cm}}$

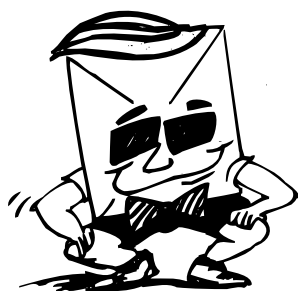
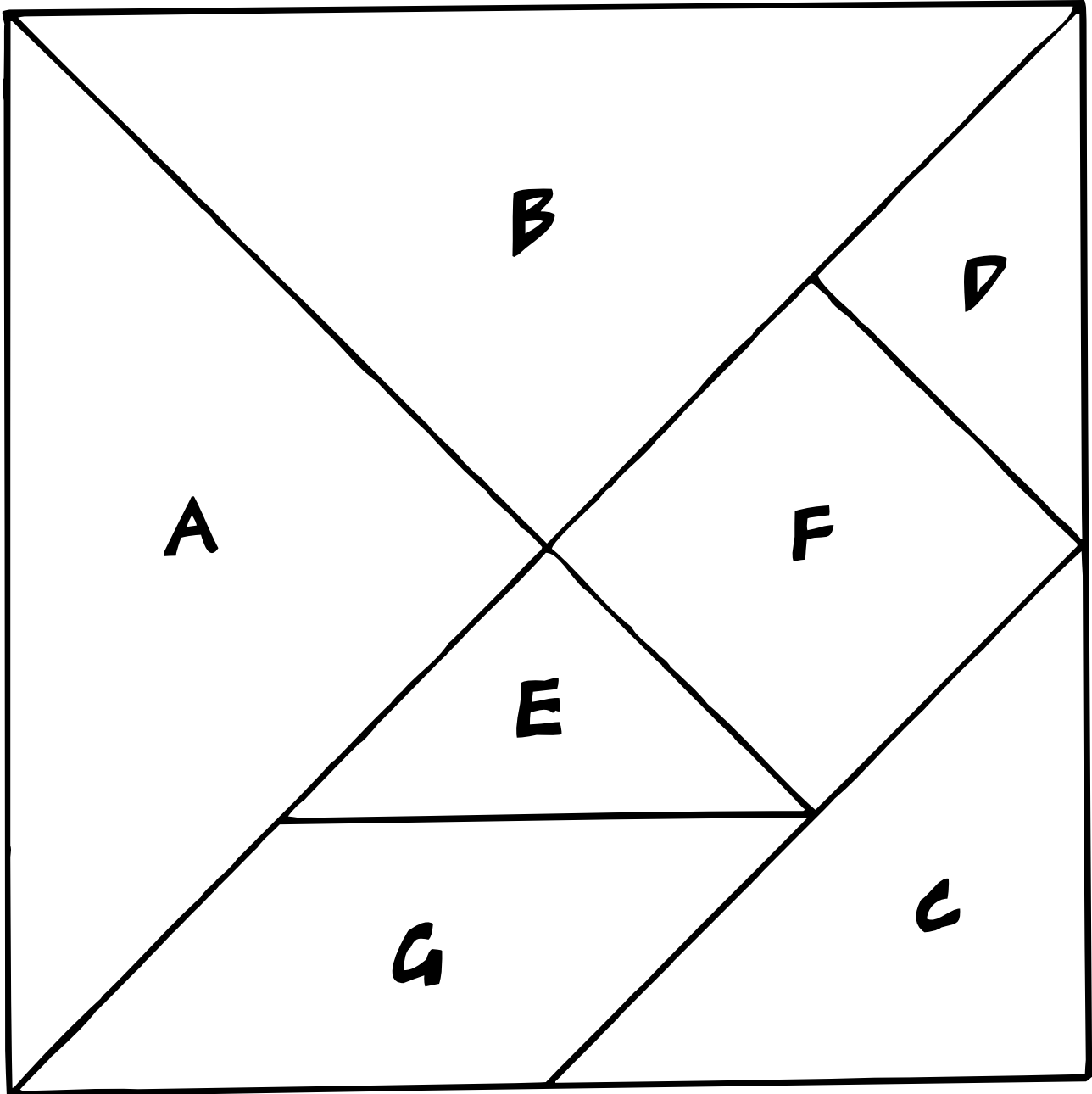
12 PENCILS & 12 RULERS $\underline{\hspace{2cm}}$



NUMBER OF MISTAKES $\underline{\hspace{2cm}}$

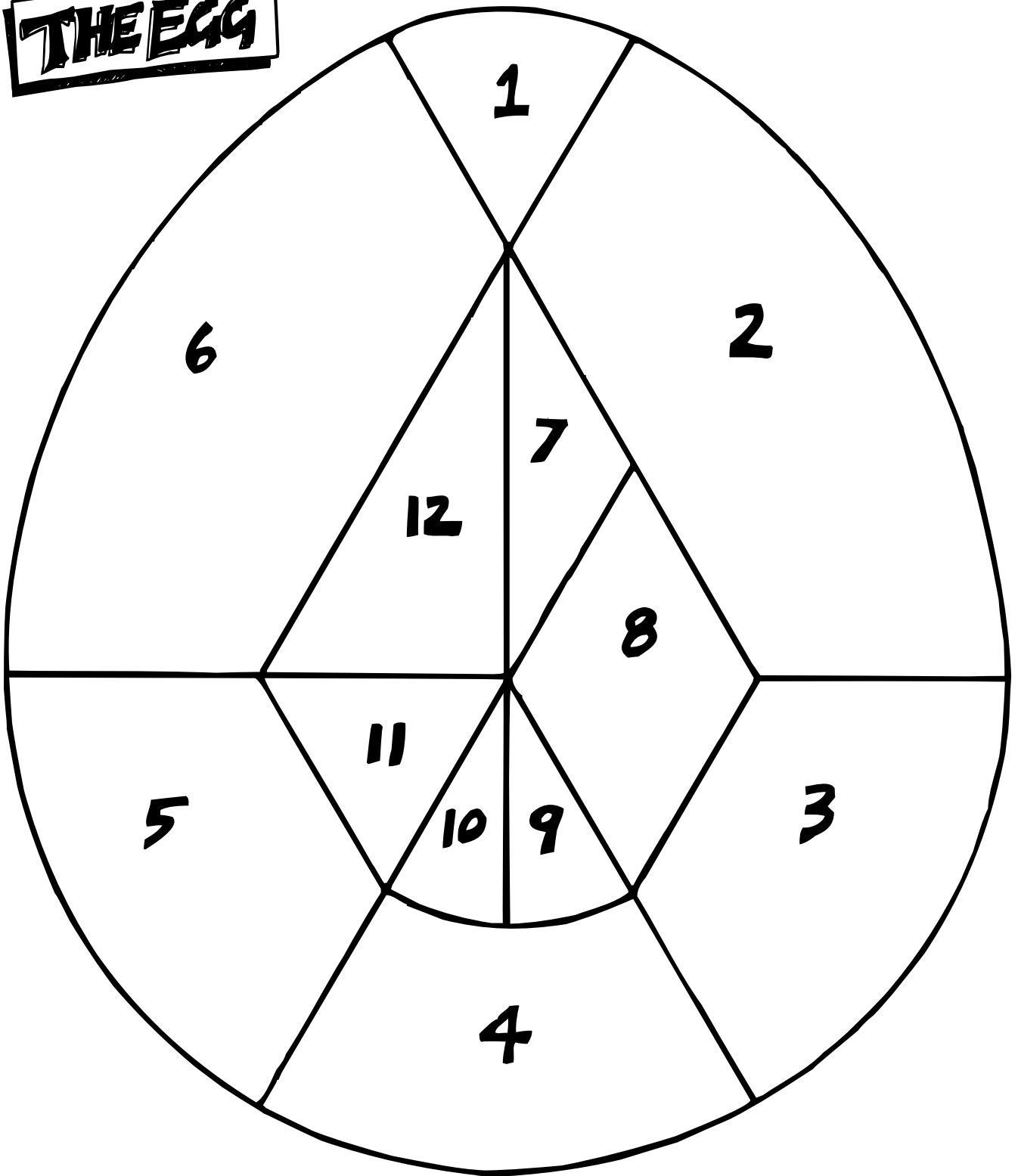
CHOOSE WHETHER YOU WANT TO CUT OUT THE TANGRAM OR THE EGG. THEN TRY TO MAKE THE SHAPES ON THE NEXT PAGE!

THE TANGRAM

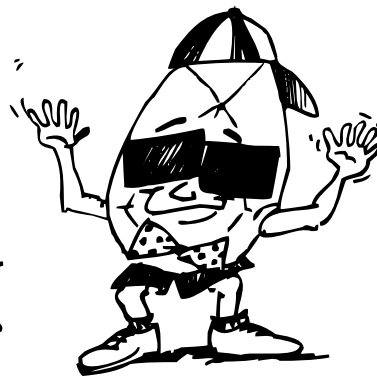


- MAYBE EVEN INVENT SOME SHAPES OF YOUR OWN!

THE EGG

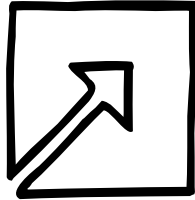


**EPPIE EGG IS ONE SMART DUDE!
UNLIKE HIS LOUSIN HUMPTY-DUMPTY
WHO JUST COULDN'T BE PUT BACK
TOGETHER, EPPIE HAS DIVIDED
HIMSELF SO HE CAN ALWAYS FORM
AN EGG, AND NOT ONLY THAT, HE
CAN CHANGE INTO HEAPS OF OTHER
EXCITING SHAPES!**

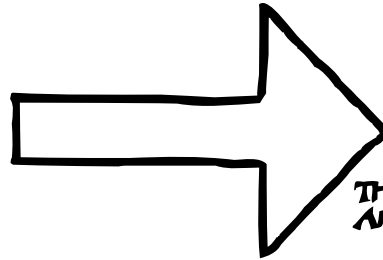


**— HERE ARE JUST SOME
OF THE MANY SHAPES
YOU CAN MAKE!**

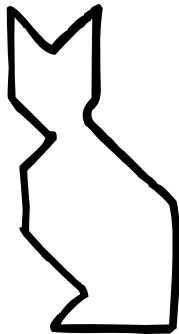
T
A
N
G
R
A
M



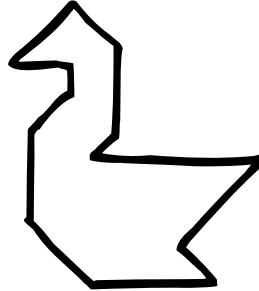
ARROW
IN A BOX



THE
ARROW



CAT

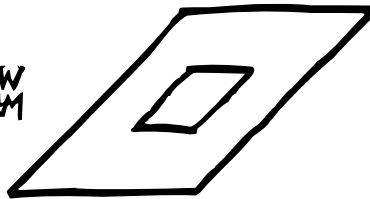


SWAN

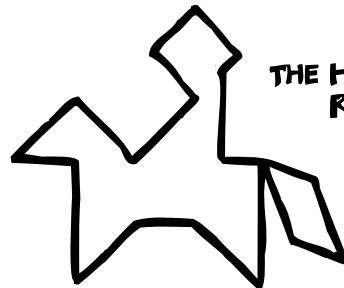
SAILING
BOAT



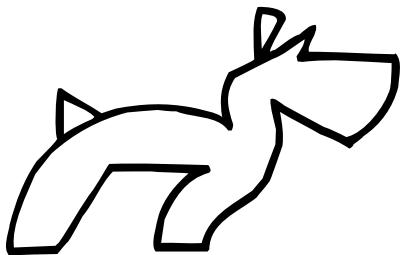
THE HOLLOW
PARALLELOGRAM



THE HORSE AND
RIDER

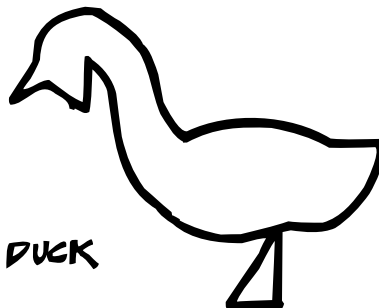
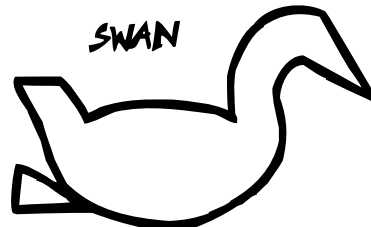


THE EGG



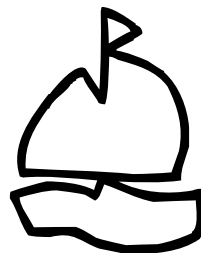
DOG

SWAN



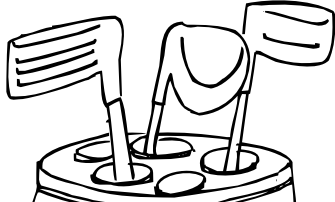
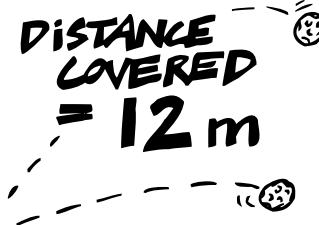
STANDING DUCK

BOAT



ABSOLUTELY AWESOME MATHS GOLF!

-HOW TO PLAY

<p>YOU ARE ALLOWED 3 TYPES OF GOLF CLUB</p> <ul style="list-style-type: none">- CLUB 1- CLUB 2- CLUB 5 	<p>YOU CAN HIT WITH ONE OF THE FOLLOWING STRENGTHS</p> <ul style="list-style-type: none">- STRENGTH 3- STRENGTH 4- STRENGTH 6	<p>COMBINING THE CLUBS WITH STRENGTH, CLUB 2, STRENGTH 6 = 2×6</p> <p>DISTANCE COVERED = 12 m</p> 
--	---	---

EXAMPLE 1

HOLE DISTANCE = 26 m

STROKE 1: CLUB 5, STRENGTH 4 = 5×4
DISTANCE = 20 m

STROKE 2: CLUB 2, STRENGTH 3 = 2×3
DISTANCE = 6 m

TOTAL DISTANCE: $20 + 6 = 26$ m

EXAMPLE 2

(YOU CAN ALSO HIT BACKWARDS!)


HOLE DISTANCE = 24 m

STROKE 1: CLUB 5, STRENGTH 6 = 5×6
DISTANCE = 30 m

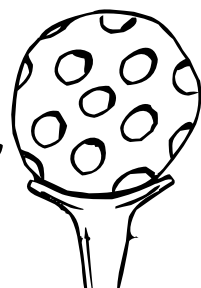
STROKE 2: CLUB 2, STRENGTH 3 = 2×3
DISTANCE = 6 m

TOTAL DISTANCE: $30 - 6 = 24$ m

"Birdie Two!"



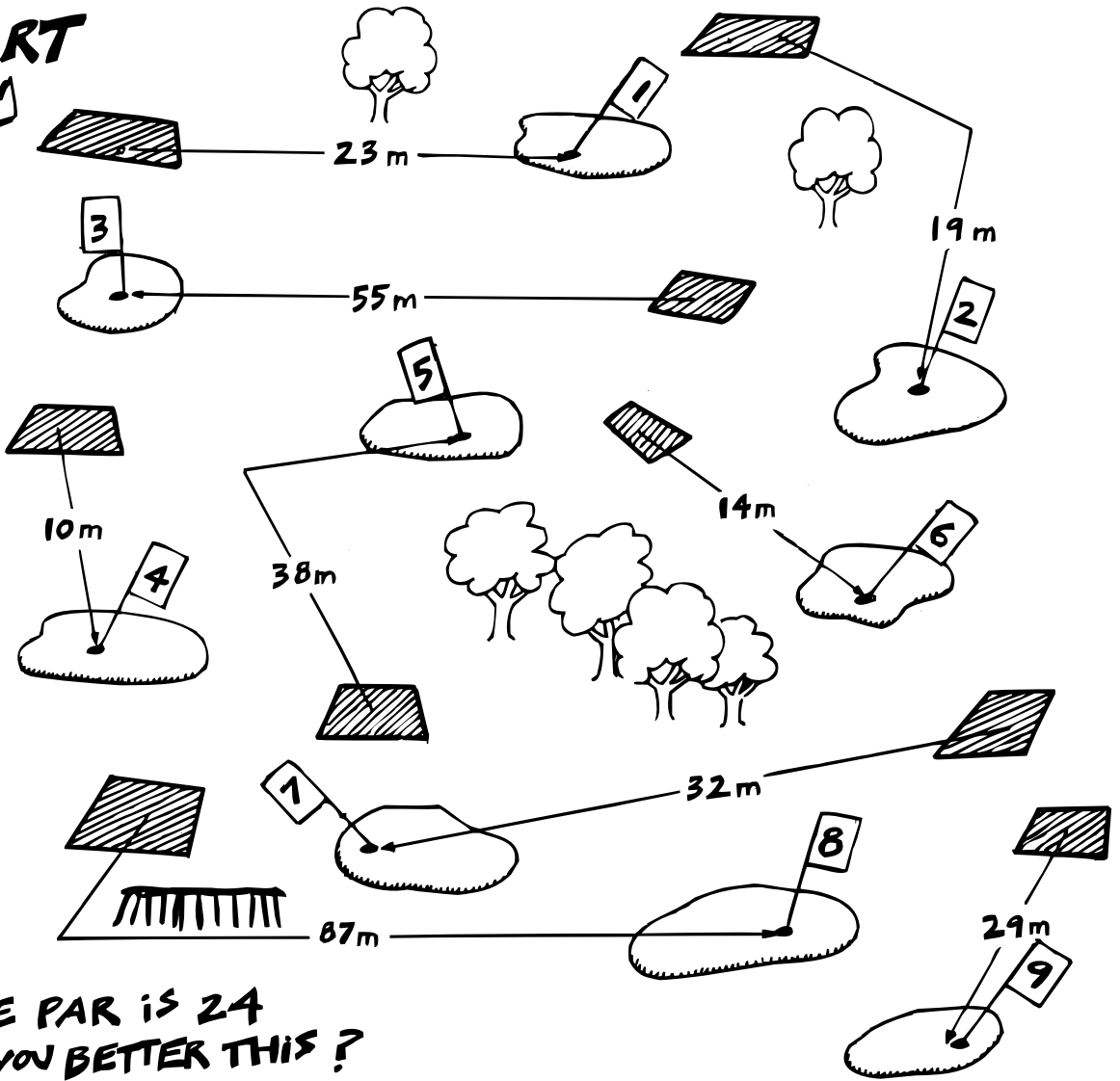
-TIME TO TEE-OFF!



START



123456789



**COURSE PAR IS 24
DID YOU BETTER THIS ?**

HOLE	DISTANCE	CLUB & STRENGTH	STROKES
1	23 m		
2	19 m		
3	55 m		
4	10 m		
5	38 m		
6	14 m		
7	32 m		
8	87 m		
9	29 m		
TOTAL			

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{array}{ll}
 15 + 15 = \underline{\quad} & 22 - 18 = \underline{\quad} \\
 14 + 14 = \underline{\quad} & 15 + 19 = \underline{\quad} \\
 20 - 3 = \underline{\quad} & 20 \div 10 = \underline{\quad} \\
 3 \times 36 = \underline{\quad} & 15 \times 5 = \underline{\quad} \\
 65 + 9 = \underline{\quad} & 66 + 66 = \underline{\quad} \\
 57 - 9 = \underline{\quad} & 66 \times 2 = \underline{\quad} \\
 107 - 11 = \underline{\quad} & 105 - 22 = \underline{\quad} \\
 3 \times 80 = \underline{\quad} & 100 \div 25 = \underline{\quad} \\
 200 \div 4 = \underline{\quad} & 50 \times 6 = \underline{\quad} \\
 27 \div 9 = \underline{\quad} & 24 \times 3 = \underline{\quad}
 \end{array}$$

TELLING TABLES

$$\begin{array}{l}
 5 \times 6 = \underline{\quad} \\
 5 \times 3 = \underline{\quad} \\
 5 \times 7 = \underline{\quad} \\
 5 \times 10 = \underline{\quad} \\
 5 \times 12 = \underline{\quad} \\
 5 \times 8 = \underline{\quad} \\
 5 \times 4 = \underline{\quad} \\
 5 \times 11 = \underline{\quad} \\
 5 \times 9 = \underline{\quad} \\
 5 \times 5 = \underline{\quad}
 \end{array}$$



POSSIBLE PATTERNS

$$\begin{array}{ll}
 999 \times 2 = \underline{\quad} & 55 \times 5 = \underline{\quad} \\
 999 \times 3 = \underline{\quad} & 555 \times 5 = \underline{\quad} \\
 999 \times 4 = \underline{\quad} & 5555 \times 5 = \underline{\quad} \\
 999 \times 5 = \underline{\quad} & 55555 \times 5 = \underline{\quad} \\
 999 \times 6 = \underline{\quad} & 1 \times 1 = \underline{\quad} \\
 999 \times 7 = \underline{\quad} & 11 \times 11 = \underline{\quad} \\
 999 \times 8 = \underline{\quad} & 111 \times 111 = \underline{\quad} \\
 999 \times 9 = \underline{\quad} & 1111 \times 1111 = \underline{\quad}
 \end{array}$$

SNACK TIME!

MAGIC MENU

- HAMBURGER \$2.50
- CHEESEBURGER \$2
- CHIPS MIN \$1.50
- SALAD \$1.90
- COKE
 - SMALL \$1.50
 - MED \$1.90
 - LARGE \$2.50

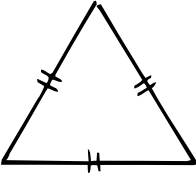
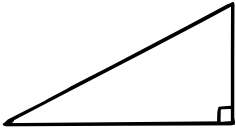
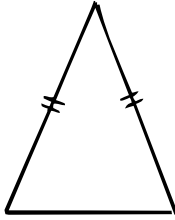
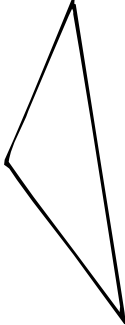
WHAT IS THE COST OF :

- 1 HAMBURGER, \$1.50 CHIPS, SMALL COKE _____
- \$2 CHIPS, SALAD, LARGE COKE _____
- 2 CHEESEBURGERS MEDIUM COKE, \$1.50 CHIPS _____
- 4 SALADS, \$5 CHIPS, 3 SMALL COKES _____

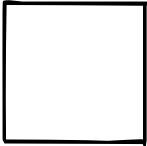
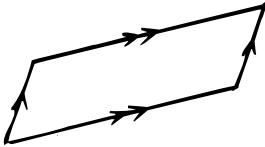
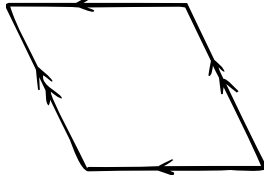
NUMBER OF MISTAKES _____


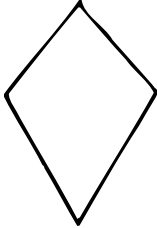
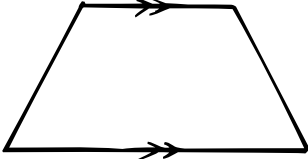
FILL IN THE INFORMATION ABOUT POLYGONS!

A TRIANGLE HAS ___ SIDES
 - TYPES OF TRIANGLES

A QUADRILATERAL HAS ___ SIDES
 - TYPES OF QUADRILATERALS

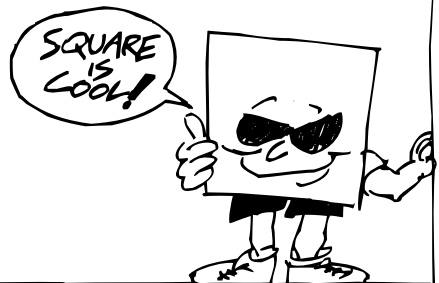




A PENTAGON HAS ___ SIDES

A _____ HAS 6 SIDES

A _____ HAS 7 SIDES

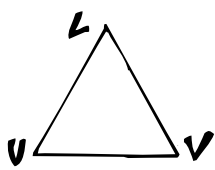
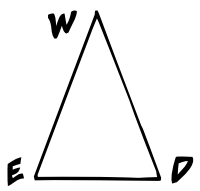
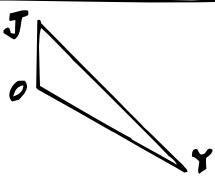
AN OCTAGON HAS ___ SIDES



ANSWERS

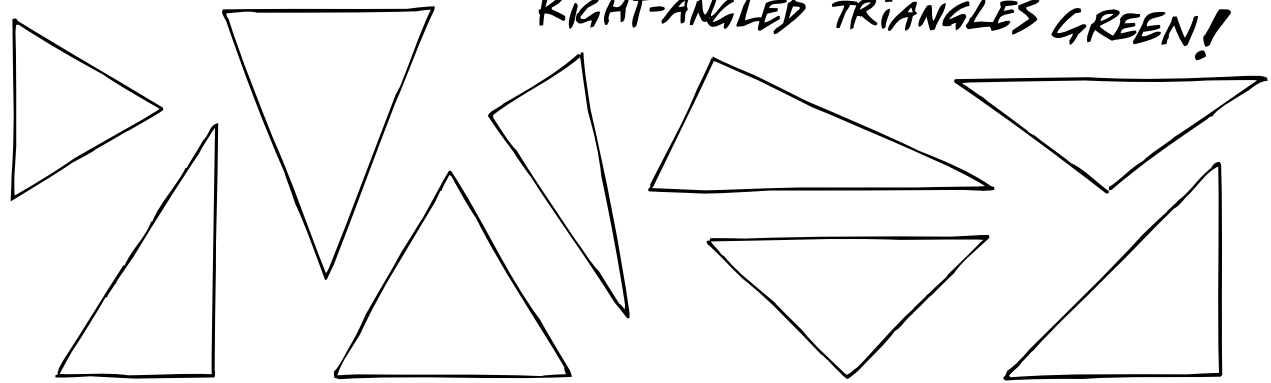
HEPTAGON	ISOSCELES	KITE	5	EQUILATERAL
A RECTANGLE	HEXAGON	SQUARE	PARALLELOGRAM	TRAPEZIUM
	3	RHOMBUS	8	SCALENE
		RIGHT ANGLE		

TRIGONS GALORE

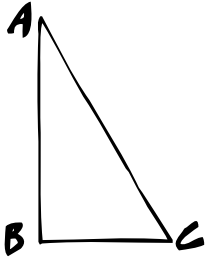
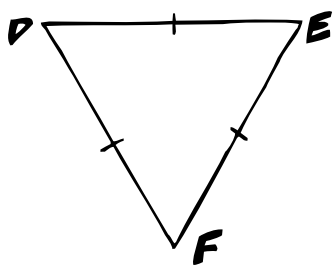
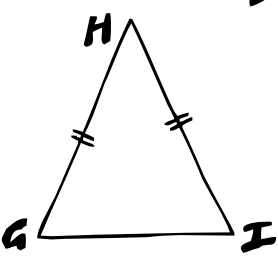
TRIGON	ACTIVITY	TYPE OF TRIANGLE	HISTORY
	MEASURE THE LENGTH OF EACH SIDE. $LU = \underline{\quad}$ $UV = \underline{\quad}$ $VL = \underline{\quad}$ DID YOU DISCOVER THAT EACH SIDE IS THE SAME LENGTH? $\underline{\quad}$	<hr style="width: 50%; margin: auto;"/>	LATIN; AEQUI, LATERA EQUAL SIDES
	MEASURE THE LENGTH OF EACH SIDE. $WE = \underline{\quad}$ $ED = \underline{\quad}$ $DW = \underline{\quad}$ ARE THERE TWO SIDES EQUAL IN LENGTH? $\underline{\quad}$ WHICH: $\underline{\quad}$	<hr style="width: 50%; margin: auto;"/>	GREEK, ISOS, SKELOS EQUAL LEGS
	MEASURE EACH SIDE OF THIS TRIANGLE. $JO = \underline{\quad}$ $OY = \underline{\quad}$ $YJ = \underline{\quad}$ ARE ANY SIDES THE SAME LENGTH? $\underline{\quad}$	<hr style="width: 50%; margin: auto;"/>	TRIANGLE-LATIN; TRI, ANGULI THREE CORNERS

NOW DECIDE WHAT TYPE OF TRIANGLE EACH IS.

COLOUR EQUILATERAL TRIANGLES RED, ISOSCELES TRIANGLES BLUE, & RIGHT-ANGLED TRIANGLES GREEN!

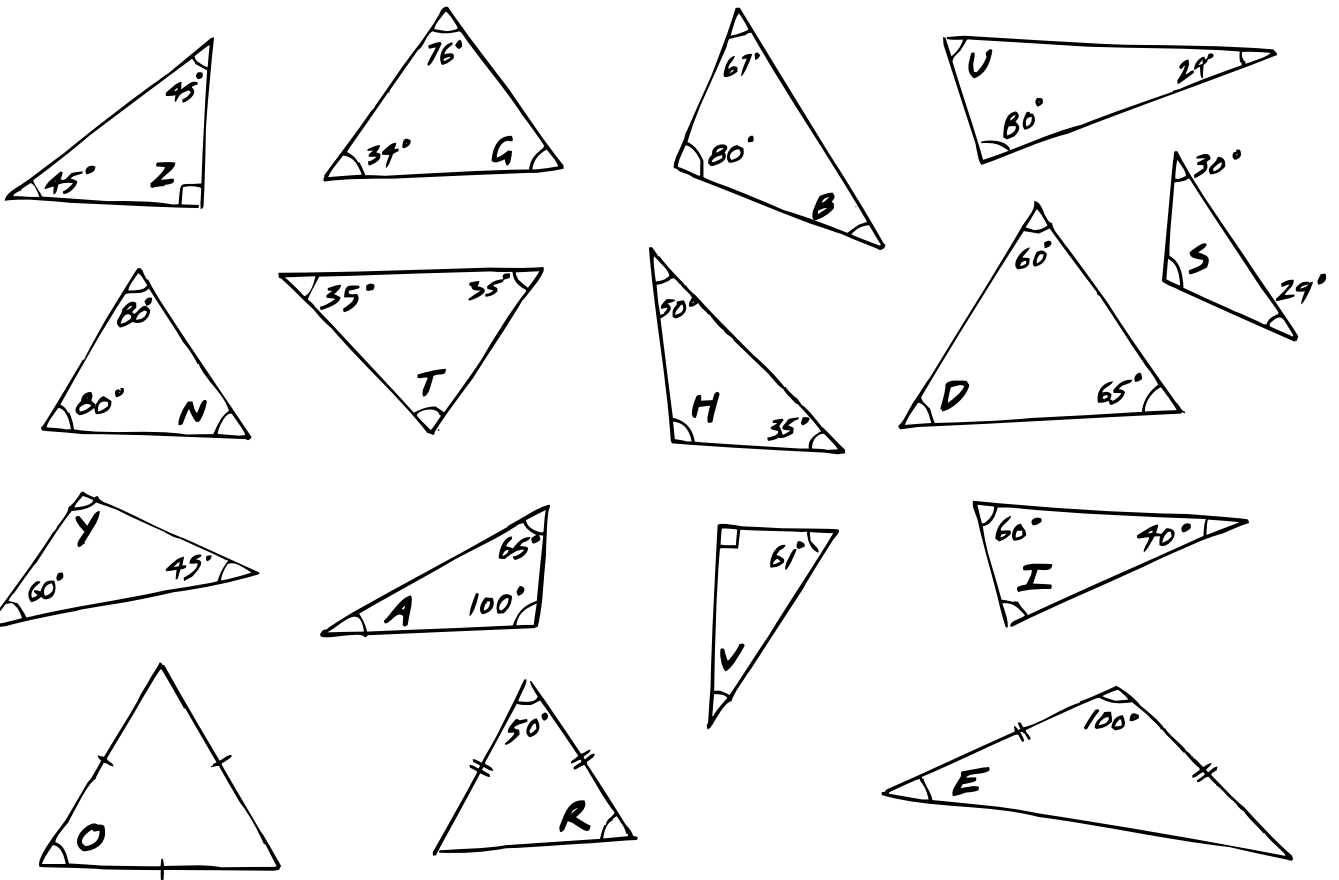


EXPLORE THE TRIANGLES BELOW BY MEASURING EACH ANGLE & COMPLETING THE TABLE!

<div style="text-align: center;">  </div> <p> ANGLE A = $\underline{\quad}$ ANGLE B = $\underline{\quad}$ ANGLE C = $\underline{\quad}$ SUM OF ANGLES = $\underline{\quad}$ A $\underline{\quad}$ TRIANGLE. </p>	<div style="text-align: center;">  </div> <p> ANGLE D = $\underline{\quad}$ ANGLE E = $\underline{\quad}$ ANGLE F = $\underline{\quad}$ SUM OF ANGLES = $\underline{\quad}$ AN $\underline{\quad}$ TRIANGLE. </p>	<div style="text-align: center;">  </div> <p> ANGLE G = $\underline{\quad}$ ANGLE H = $\underline{\quad}$ ANGLE I = $\underline{\quad}$ SUM OF ANGLES = $\underline{\quad}$ AN $\underline{\quad}$ TRIANGLE. </p>
--	---	---

TRIANGLES ARE HOT!

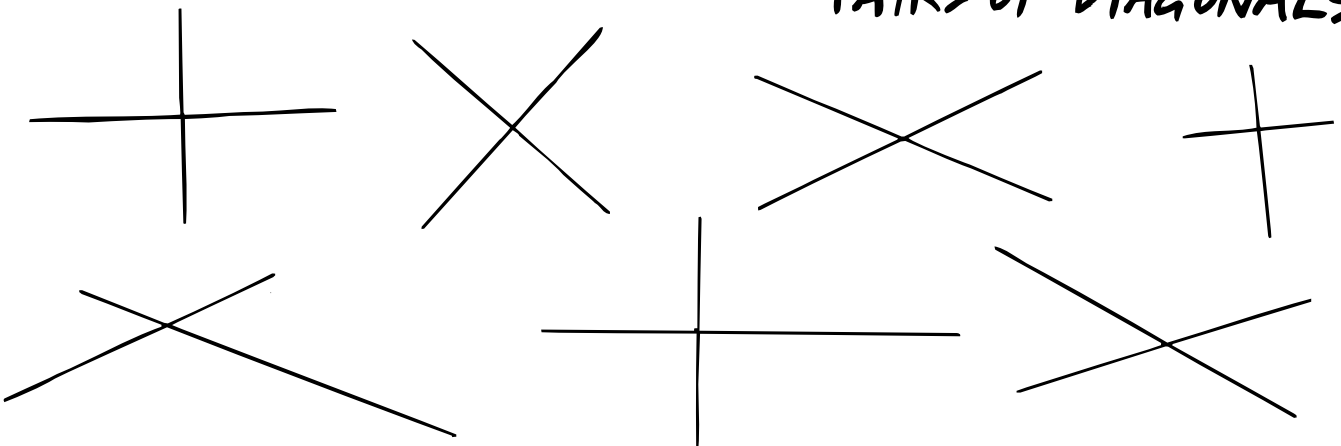
FILL IN THE MISSING ANGLE ON THE TRIANGLES BELOW TO DISCOVER A FACT ABOUT TRIANGLES



"THE SUM OF THE ANGLES OF A TRIANGLE IS ...

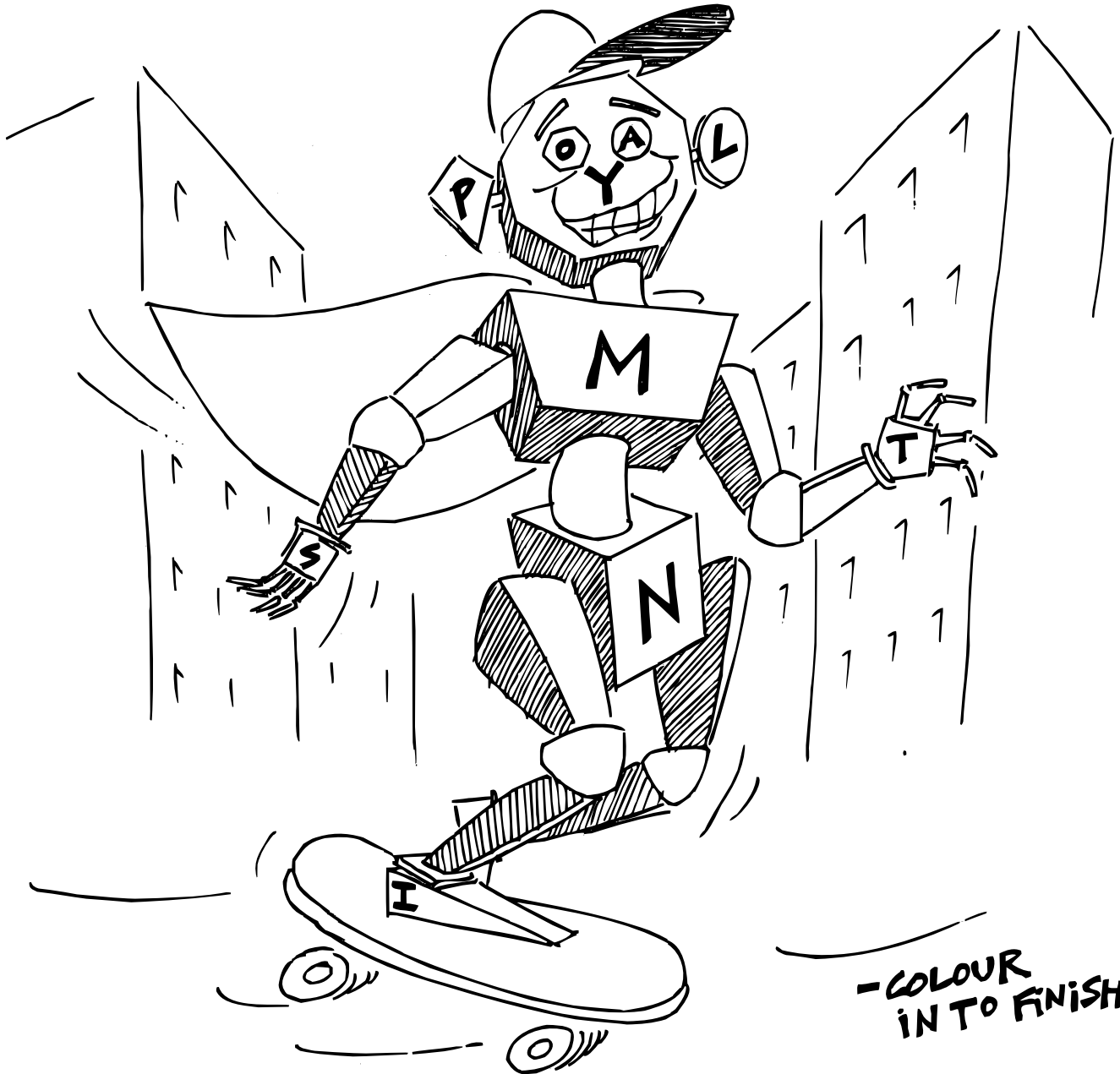
... $60^\circ + 20^\circ + 40^\circ$ $95^\circ + 76^\circ + 20^\circ$ $55^\circ + 65^\circ + 40^\circ$ $55^\circ + 15^\circ + 20^\circ$ $55^\circ + 40^\circ + 80^\circ$ $70^\circ + 95^\circ + 110^\circ$ $75^\circ + 55^\circ + 40^\circ$ $70^\circ + 65^\circ + 40^\circ$ $40^\circ + 121^\circ + 15^\circ$ $33^\circ + 60^\circ + 29^\circ$ $40^\circ + 90^\circ + 40^\circ$ $65^\circ + 60^\circ$!"

NOW DRAW QUADRILATERALS AROUND THE FOLLOWING PAIRS OF DIAGONALS!



— MEET EVERY MATHEMATICIANS HERO!

WRITE THE CORRECT LETTER ABOVE THE POLYGON IT REPRESENTS!



TRIANGLE	PENTAGON	SQUARE		KITE	HEXAGON	ELLIPSE	OCTAGON	TRAPEZIUM	CIRCLE	RECTANGLE

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$38 - 12 = \underline{\quad} \quad 58 - 27 = \underline{\quad}$$

$$15 + 19 = \underline{\quad} \quad 63 + 42 = \underline{\quad}$$

$$27 - 15 = \underline{\quad} \quad 18 - 15 = \underline{\quad}$$

$$4 \times 33 = \underline{\quad} \quad 35 \div 7 = \underline{\quad}$$

$$74 + 8 = \underline{\quad} \quad 45 \div 9 = \underline{\quad}$$

$$8 \times 40 = \underline{\quad} \quad 18 \times 3 = \underline{\quad}$$

$$8 \times 30 = \underline{\quad} \quad 4 \times 15 = \underline{\quad}$$

$$360 \div 6 = \underline{\quad} \quad 72 + 70 = \underline{\quad}$$

$$480 \div 4 = \underline{\quad} \quad 49 \div 7 = \underline{\quad}$$

$$97 + 13 = \underline{\quad} \quad 108 - 15 = \underline{\quad}$$

TRENDY TABLES

$$7 \times 8 = \underline{\quad}$$

$$7 \times 5 = \underline{\quad}$$

$$7 \times 9 = \underline{\quad}$$

$$7 \times 12 = \underline{\quad}$$

$$7 \times 11 = \underline{\quad}$$

$$7 \times 3 = \underline{\quad}$$

$$7 \times 6 = \underline{\quad}$$

$$7 \times 10 = \underline{\quad}$$

$$7 \times 8 = \underline{\quad}$$

$$7 \times 4 = \underline{\quad}$$

POSSIBLE PATTERNS

$$1 \times 9 + 2 = \underline{\quad} \quad 37 \times 3 = \underline{\quad}$$

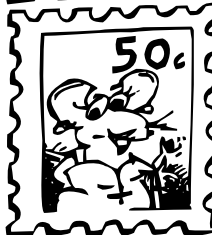
$$12 \times 9 + 3 = \underline{\quad} \quad 37 \times 6 = \underline{\quad}$$

$$123 \times 9 + 4 = \underline{\quad} \quad 37 \times 9 = \underline{\quad}$$

$$1234 \times 9 + 5 = \underline{\quad} \quad 37 \times 12 = \underline{\quad}$$

$$12345 \times 9 + 6 = \underline{\quad} \quad 37 \times 15 = \underline{\quad}$$

MAIL MIXTURES



WHAT COMBINATION OF 40¢ AND 50¢ STAMPS DO YOU NEED TO POST LETTERS WITH THESE AMOUNTS?

\$1.40 _____

\$1.30 _____

\$1.70 _____

\$3.30 _____

\$5.20 _____

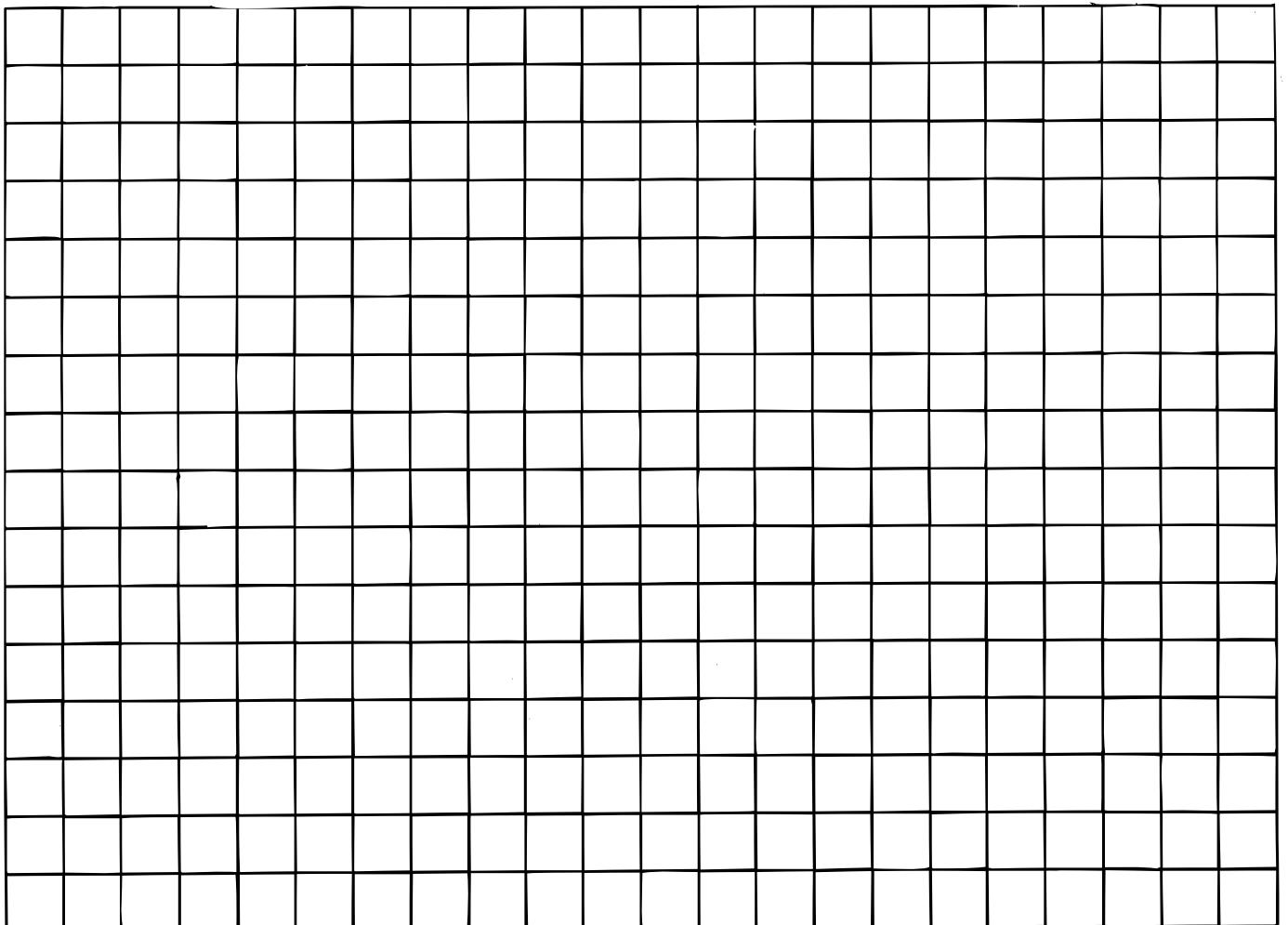
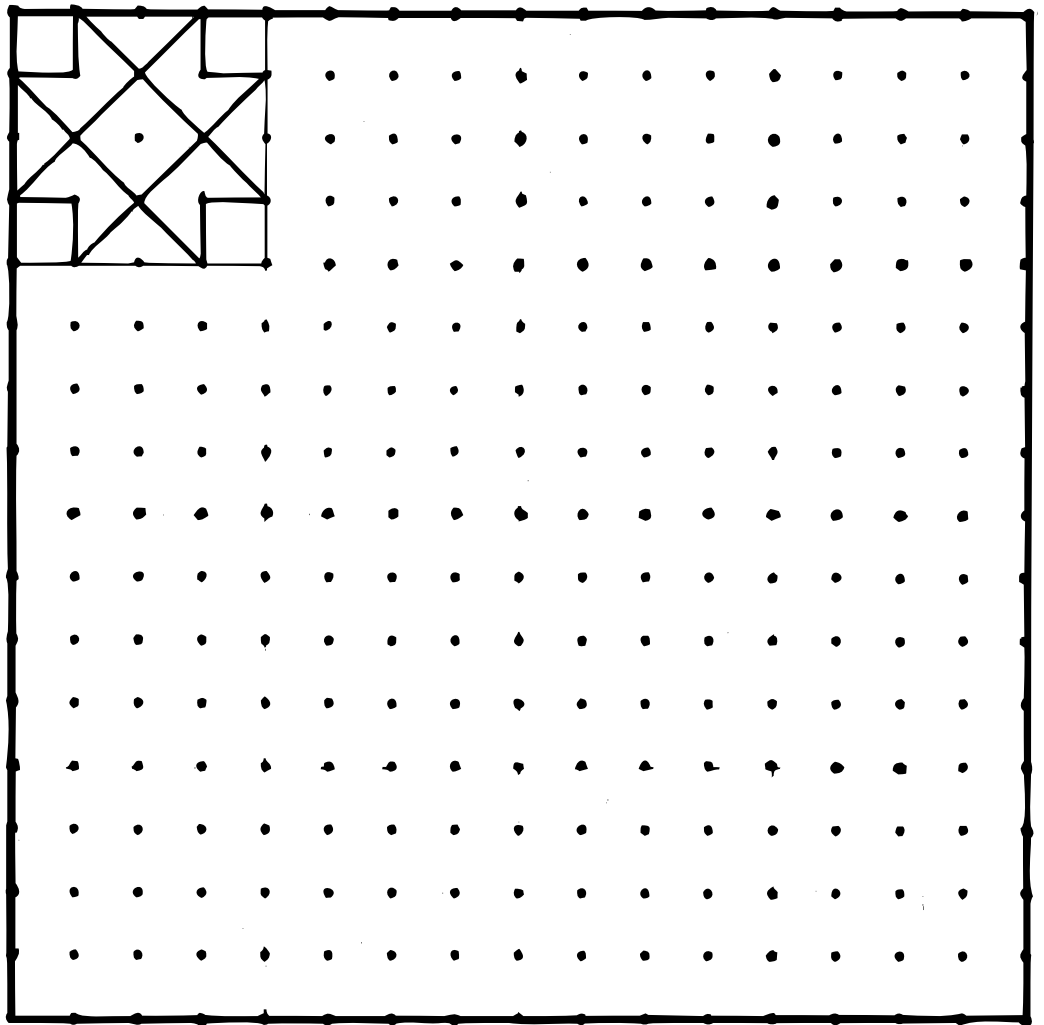
NUMBER OF MISTAKES _____

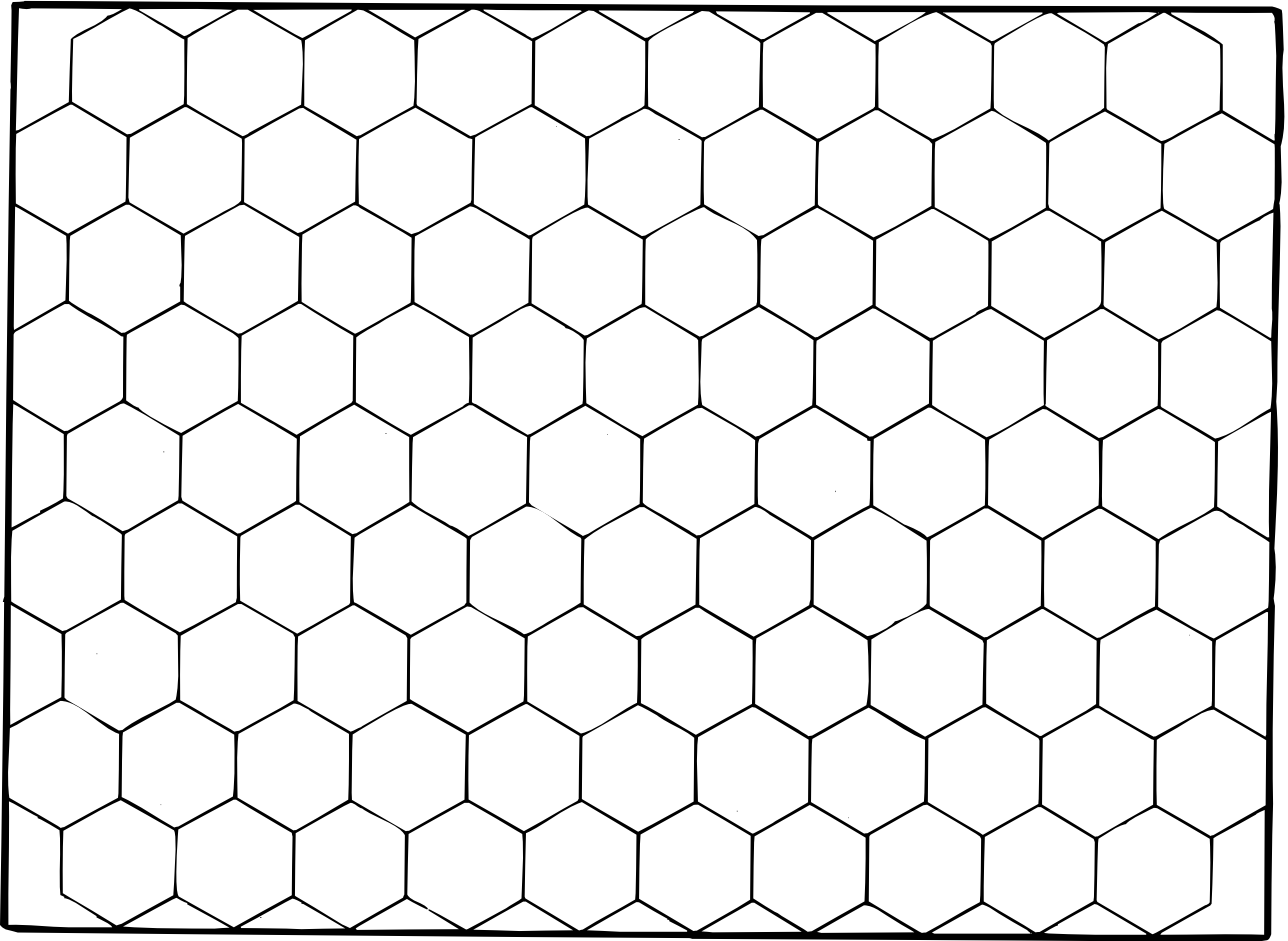


REPEAT THIS
PATTERN →
IN ALL THE
OTHER SQUARES
NOW COLOUR
YOUR DESIGN!

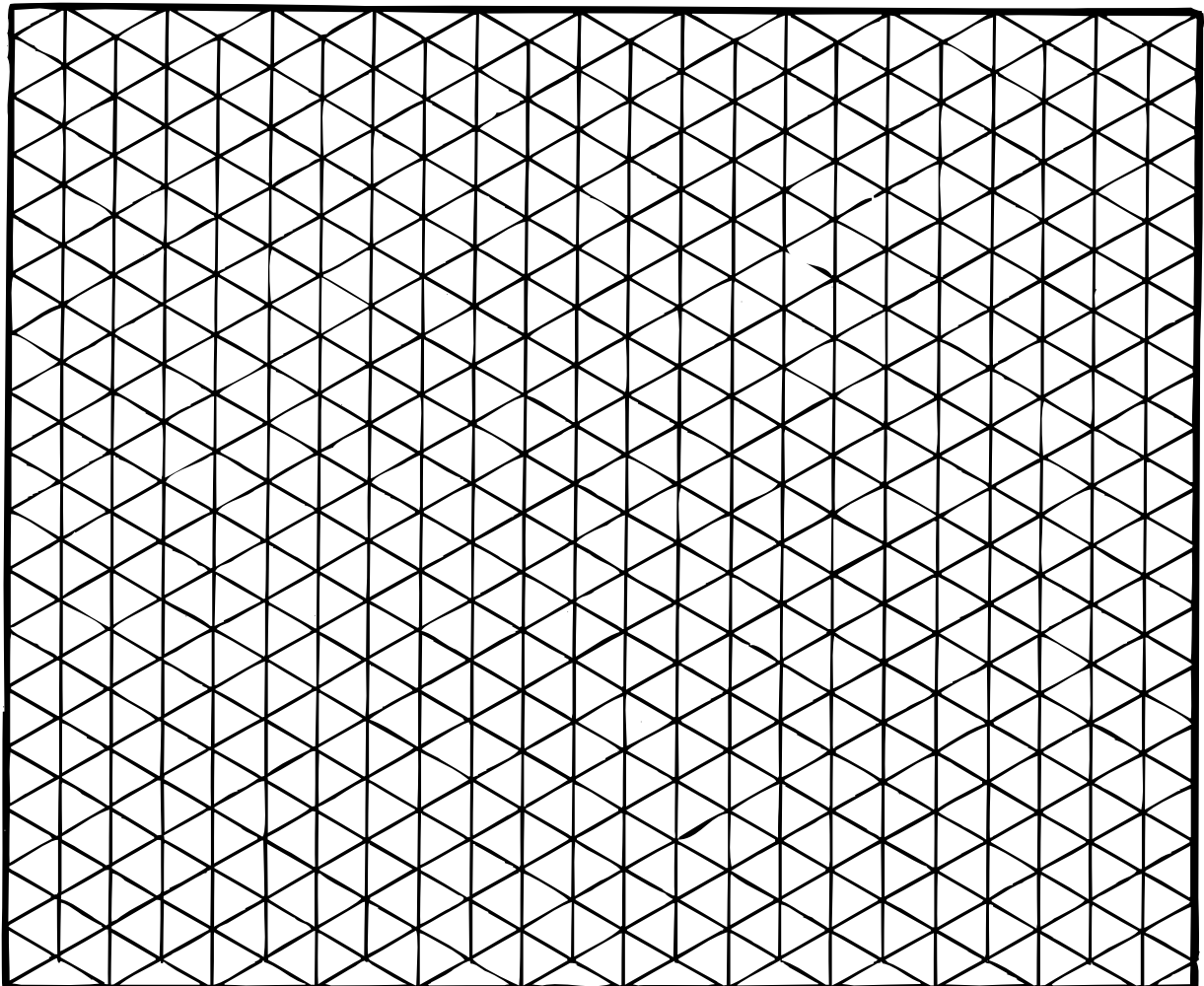
WHEN YOU
REPEAT
PATTERNS
LIKE THIS YOU
ARE DRAWING A
TESSELATION

NOW DESIGN
IN THE
SQUARES
BELOW ↓

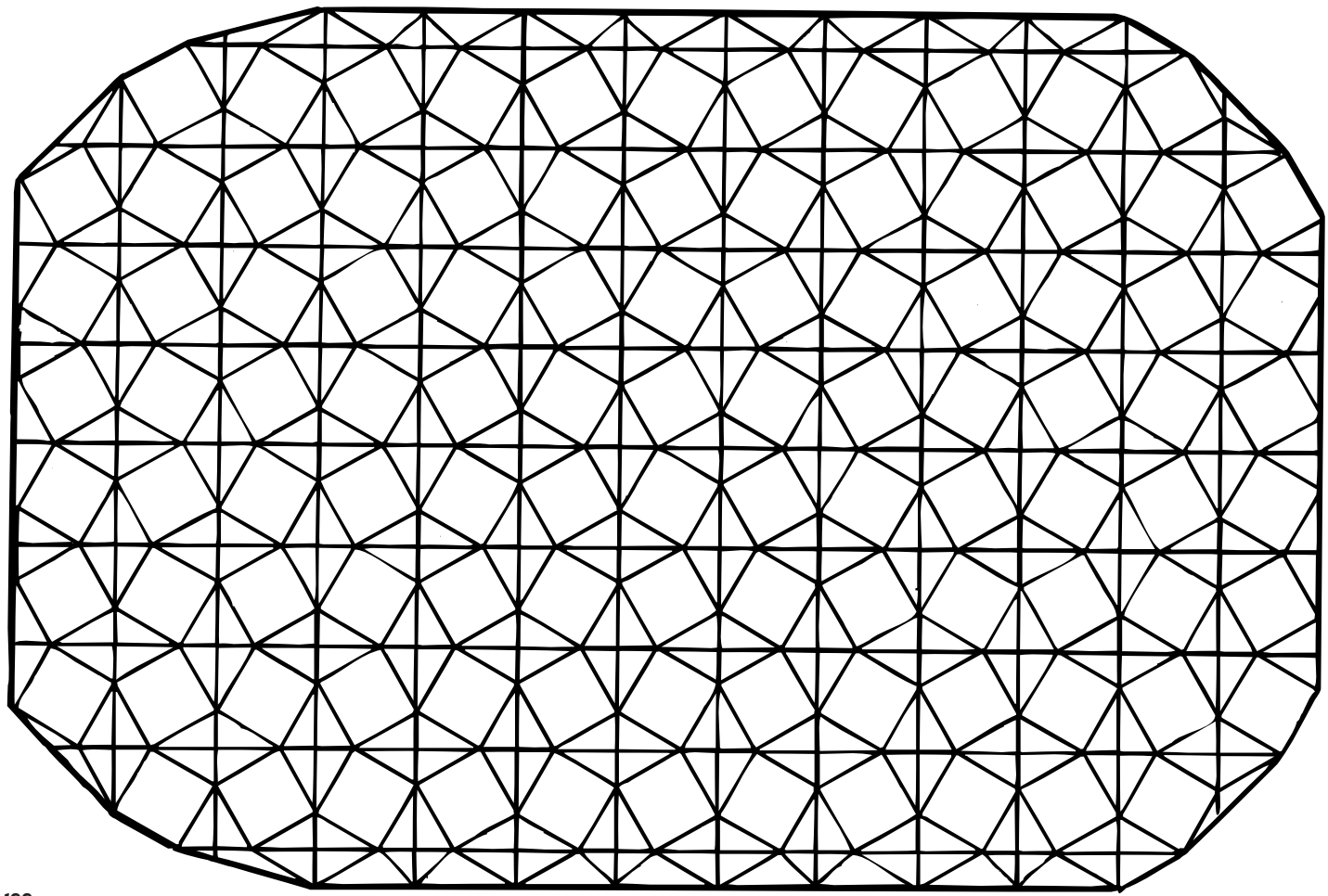
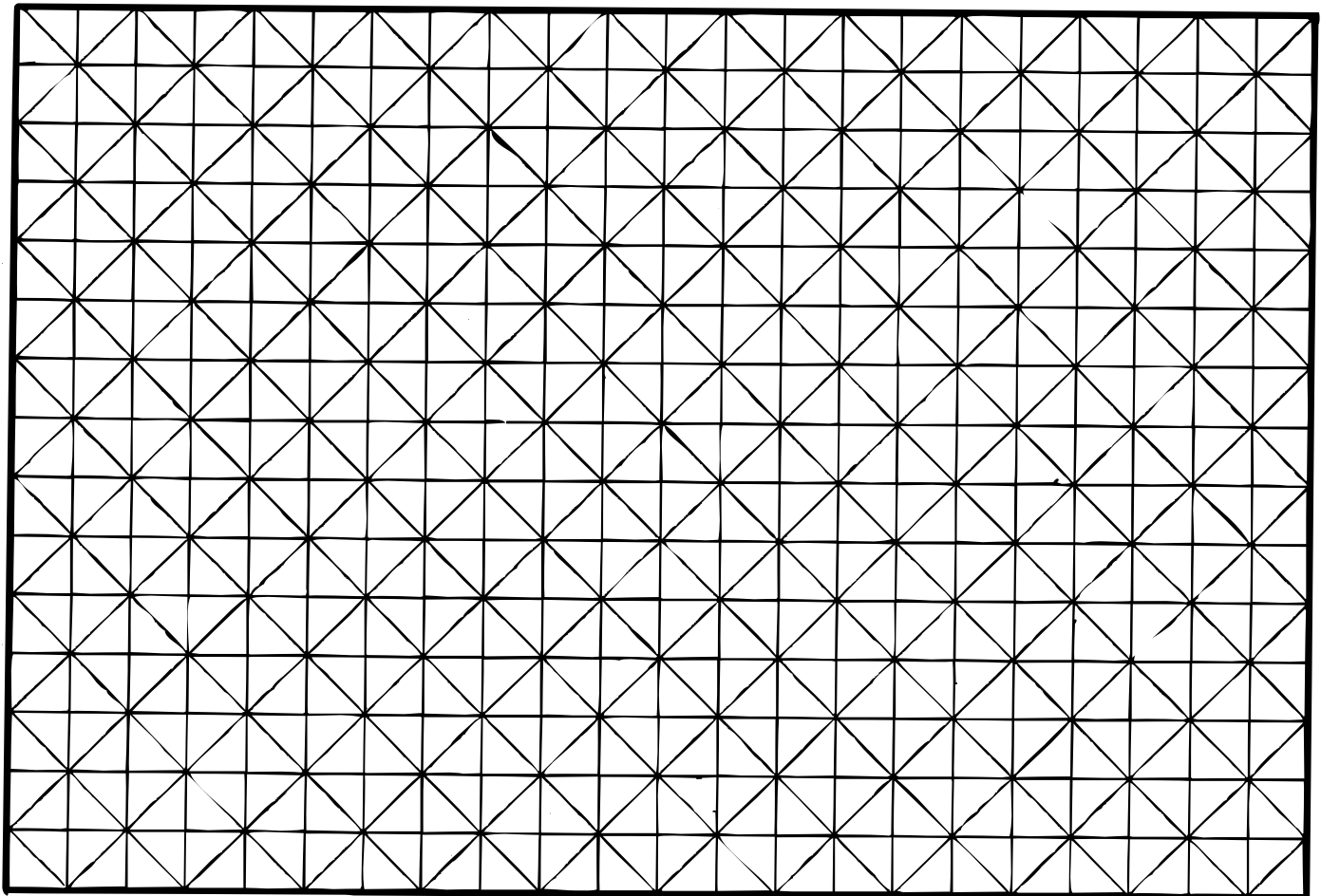




DESIGN A TESSELTION FOR EACH !



TESSELATIONS - THE FINAL DESIGNS!



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$23 + 22 = \underline{\quad}$$

$$24 - 18 = \underline{\quad}$$

$$21 \times 6 = \underline{\quad}$$

$$25 \div 5 = \underline{\quad}$$

$$24 + 21 = \underline{\quad}$$

$$26 - 23 = \underline{\quad}$$

$$20 \times 9 = \underline{\quad}$$

$$21 \div 7 = \underline{\quad}$$

$$26 - 15 = \underline{\quad}$$

$$36 - 27 = \underline{\quad}$$

DANDY DECIMALS

$$1.5 + 1.4 = \underline{\quad}$$

$$1.7 + 1.1 = \underline{\quad}$$

$$2.8 - 1.5 = \underline{\quad}$$

$$3.9 - 3.1 = \underline{\quad}$$

$$2 - 0.6 = \underline{\quad}$$

$$4 - 0.7 = \underline{\quad}$$

$$10 \times 2.5 = \underline{\quad}$$

$$10 \times 0.03 = \underline{\quad}$$

$$20\% \text{ AS A DECIMAL IS } \underline{\quad}$$

$$37\% \text{ AS A DECIMAL IS } \underline{\quad}$$

RADICAL ROMANS

$$X = \underline{\quad}$$

$$XX = \underline{\quad}$$

$$L = \underline{\quad}$$

$$LXX = \underline{\quad}$$

$$C = \underline{\quad}$$

$$\underline{\quad} = 30$$

$$\underline{\quad} = 60$$

$$\underline{\quad} = 80$$

$$\underline{\quad} = 101$$

$$\underline{\quad} = 110$$



EXTRA EXAMPLES

$$589 + 300 = \underline{\quad}$$

$$600 + 600 = \underline{\quad}$$

$$500 - 170 = \underline{\quad}$$

$$600 - 128 = \underline{\quad}$$

$$90 \times 5 = \underline{\quad}$$

$$52 \times 10 = \underline{\quad}$$

$$100 \div 10 = \underline{\quad}$$

$$2341 \div 100 = \underline{\quad}$$

$$666 + 777 = \underline{\quad}$$

$$985 - 589 = \underline{\quad}$$

THE QUINTUS QUIZ

I LEFT HOME AT _____
 IT TOOK _____ MINUTES TO
 GET TO SCHOOL. SCHOOL WENT
 FOR _____ HOURS. SUPPER
 WAS AT _____ TODAY. I WAS
 OUT OF BED FOR _____ HOURS.

- THURSDAY -
 OUT OF BED 7:30 a.m.
 LEFT HOME 8:15
 GOT TO SCHOOL 8:45
 SCHOOL FINISHED 3:25
 ARRIVED HOME 5:00
 SUPPER TIME 9:40
 INTO MY BED 10:30

NUMBER OF MISTAKES _____

NUMBER RELATIONS

FOR EACH OF THE SERIES BELOW, FILL IN THE MISSING NUMBERS!

- 2 4 6 8 10 — — — —
- 3 5 7 9 11 — — — —
- 4 8 12 16 20 — — — —
- 1 5 2 5 3 5 — — — —
- 30 27 24 21 18 — — — —
- 1 4 9 16 25 — — — —
- 2 3 5 8 12 — — — —
- 1 2 4 8 16 — — — —
- 4 5 9 14 — — 60
- 1 2 3 5 — — 21
- 5 15 30 50 — — 140
- 22 24 28 36 — — 148



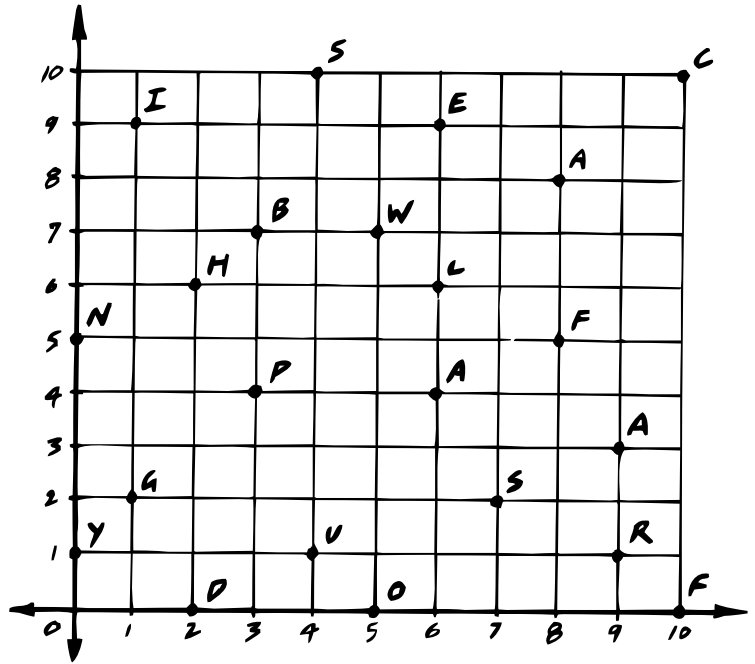
NOW CROSS OUT ALL THE SQUARES WHERE THE NUMBERS ARE NOT IN YOUR ANSWERS.



Y	K	O	U	E	J	O
14	79	15	24	43	73	87
F	C	L	A	N	S	I
10	36	39	24	28	11	46
A	L	W	C	A	Y	S
4	52	84	400	23	84	75
C	G	O	H	V	N	T
36	700	15	70	105	28	17
O	B	R	N	N	Q	A
36	29	3	18	2	33	49
A	P	C	A	L	M	C
76	230	23	37	8	25	84
U	L	A	T	O	R	B
24	64	12	32	15	23	200

WHAT IS THE BEST THING TO DO IF YOUR SHIP STARTS TO SINK?

TO FIND THE ANSWER,
WRITE THE CORRECT LETTER
ABOVE EACH CO-ORDINATE PAIR!



(1,2) (9,1) (6,4) (3,7) (8,8)

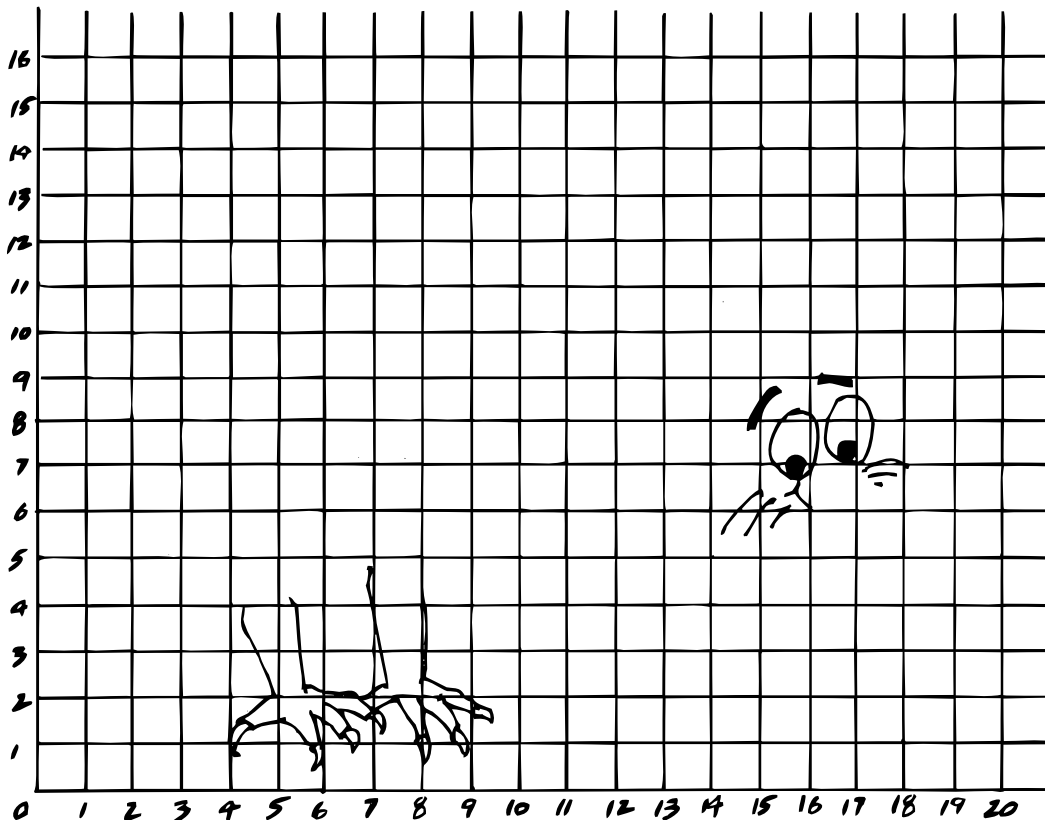
(3,4) (1,9) (6,9) (10,10) (6,9) (5,0) (8,5)

(7,2) (5,0) (6,4) (3,4) (8,8) (0,5) (2,0) (5,7) (9,3) (4,10) (2,6)

(0,1) (5,0) (4,1) (9,1) (7,2) (6,9) (6,6) (10,0) (9,3) (7,2) (2,6) (5,0) (9,1) (6,9) !

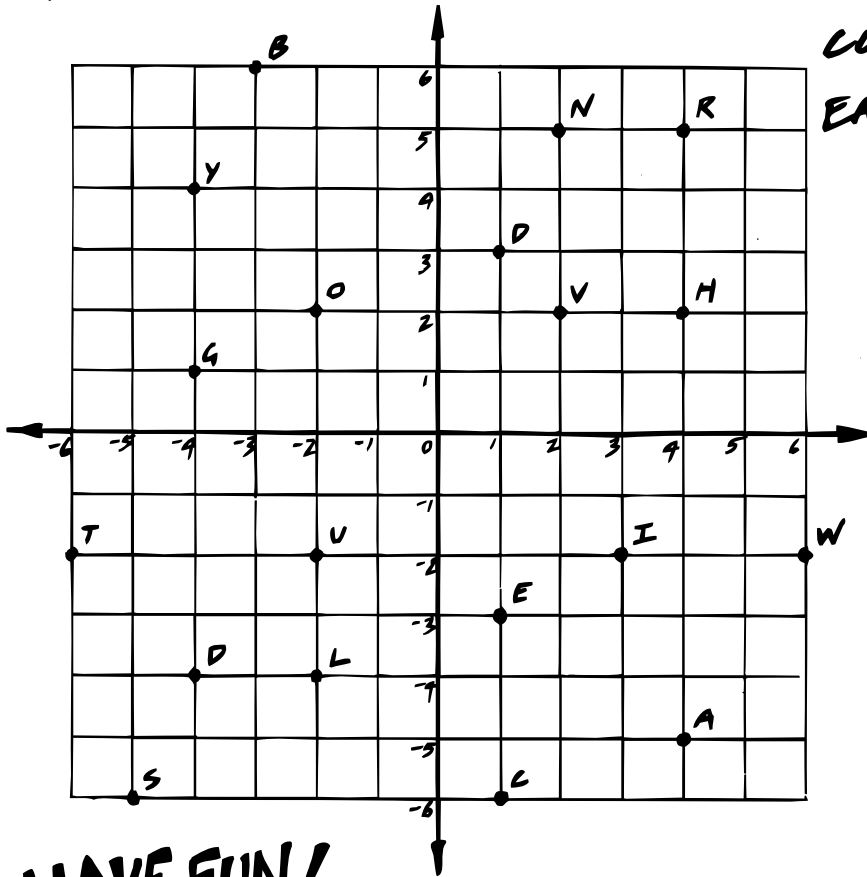
NOW PLOT THESE POINTS ON THE GRAPH BELOW AND JOIN THEM AS YOU GO!

(7,5) (8,4) (14,6) (16,6) (17,5) (19,2) (20,1) (19,3)
 (18,5) (17,7) (18,9) (16,10) (12,13) (9,14) (4,15) (2,13)
 (0,10) (2,7) (4,4) (7,5)



COLOUR ME IN!

ANOTHER CANNIBAL CODE! TO DECODE WRITE THE CORRECT LETTER ABOVE EACH CO-ORDINATE PAIR!



(1,3) (3,-2) (-4,-4)
 (-4,4) (-2,2) (-2,-2)
 (4,2) (1,-3) (4,-5) (4,5)
 (4,-5) (-3,6) (-2,2) (-2,-2) (-6,2)
 (-6,-2) (4,2) (1,-3)
 (2,2) (1,-3) (-4,1) (1,-3)

HAVE FUN!

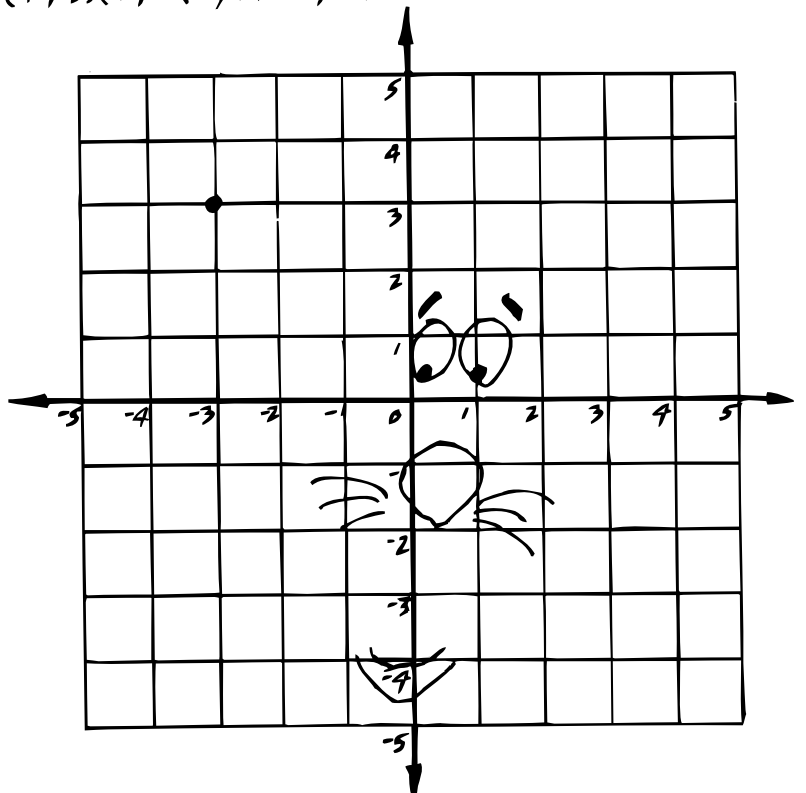
(-6,-2) (4,-5) (4,5) (3,-2) (4,-5) (2,5)

(1,-6) (4,-5) (2,5) (3,-2) (-3,6) (4,-5) (-2,-4) (6,-2) (4,2) (-2,2) (-2,2) (2,5) (-2,-4) (-4,4)

(4,-5) (-6,-2) (1,-3) (-5,-6) (6,-2) (1,-3) (1,3) (1,-3) (-5,-6)

NOW PLOT THESE POINTS AND JOIN THEM AS YOU GO! COLOUR YOUR RESULT.

(2,2) (3,0) (3,-2) (2,-4) (1,-4)
 (0,-3) (-1,-4) (-2,-4) (-3,-3) (-3,-1)
 (-1,1) (-2,2) (-4,1) (-5,3) (-3,5)
 (0,4) (1,3) (3,5) (5,3) (5,1)
 (4,0) (2,2) (0,2) (-2,3) (-3,3)



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$25 + 16 = \underline{\quad}$$

$$25 - 16 = \underline{\quad}$$

$$20 \times 7 = \underline{\quad}$$

$$36 \div 9 = \underline{\quad}$$

$$27 + 28 = \underline{\quad}$$

$$30 - 14 = \underline{\quad}$$

$$24 \times 5 = \underline{\quad}$$

$$27 \div 3 = \underline{\quad}$$

$$28 + 12 = \underline{\quad}$$

$$33 - 26 = \underline{\quad}$$

MONEY MIXTURES

$$20c + 10c = \underline{\quad}$$

$$40c + 20c = \underline{\quad}$$

$$25c - 15c = \underline{\quad}$$

$$50c - 50c = \underline{\quad}$$

$$6 \times 50c = \underline{\quad}$$

$$8 \times 40c = \underline{\quad}$$

$$\$7 + \$9 = \underline{\quad}$$

$$\$9 - \$7 = \underline{\quad}$$

$$\$50 \times 3 = \underline{\quad}$$

$$\$30 \div 6 = \underline{\quad}$$

VISCOUS VARIABLES

$$k + k = \underline{\quad}$$

$$2l - l = \underline{\quad}$$

$$m + 3m = \underline{\quad}$$

$$2n + 4n = \underline{\quad}$$

$$5p + 3p = \underline{\quad}$$

$$q - q = \underline{\quad}$$

$$3r + 2r = \underline{\quad}$$

$$3s - 2s = \underline{\quad}$$

$$5t + 4t = \underline{\quad}$$

$$5t - 4t = \underline{\quad}$$

EXTRA EXAMPLES

$$145 + 200 = \underline{\quad}$$

$$400 + 300 = \underline{\quad}$$

$$200 - 130 = \underline{\quad}$$

$$100 - 48 = \underline{\quad}$$

$$90 \times 5 = \underline{\quad}$$

$$80 \times 6 = \underline{\quad}$$

$$20 \div 10 = \underline{\quad}$$

$$60 \div 12 = \underline{\quad}$$

$$444 + 444 = \underline{\quad}$$

$$841 - 241 = \underline{\quad}$$

THE QUINTUS QUIZ

- HOW MANY DAYS IN AUGUST? _____
- WHAT DAY IS SEPTEMBER 15th? _____
- WHAT DATE IS THE THIRD SUNDAY OF AUGUST? _____
- WHAT DATE IS THE FIRST MONDAY OF SEPTEMBER? _____
- HOW MANY WEDNESDAYS IN AUGUST? _____

AUGUST						
M	T	W	T	F	S	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SEPTEMBER						
M	T	W	T	F	S	S
30						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29



NUMBER OF MISTAKES _____

- MEET CARLA OUR CRAZY CALCULATOR!



CARLA IS SO CLEVER!
EVERYTIME YOU GIVE HER
A NUMBER, ANOTHER
ONE POPS OUT!

TRY AND GUESS WHAT
CARLA IS DOING AND
FILL IN THE GAPS

NUMBERS IN	2	3	4	5	6	7	8	9	10	—	—
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
OUT	8	9	—	—	—	13	—	—	—	21	30

- THE RULE IS _____

HERE'S WHAT CRAZY CARLA DID TO SOME OTHER NUMBERS.
TRY AND WORK OUT WHAT SHE'S UP TO!

IN	0	1	2	3	4	10	20	—	—
	↓	↓	↓	↓	↓	↓	↓	↓	↓
OUT	0	5	10	—	—	—	—	150	500

- THE RULE IS _____

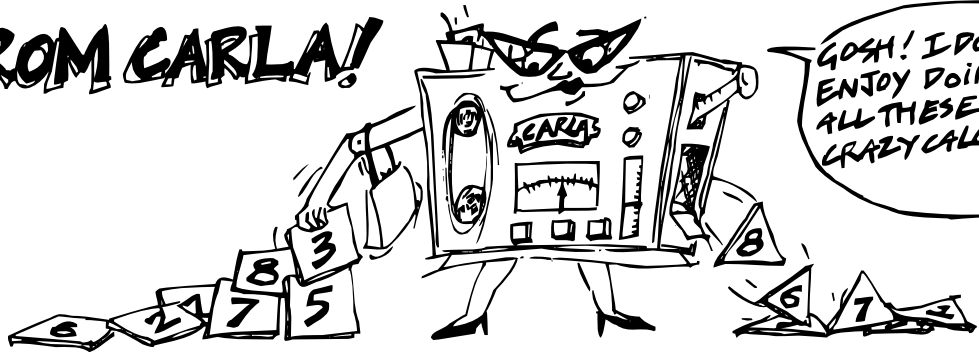
IN	0	1	2	3	4	8	10	20	—	—
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
OUT	0	$\frac{1}{2}$	1	—	—	—	—	—	100	500

THE RULE IS _____

IN	0	1	2	3	4	—	—	10	100	1000
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
OUT	1	3	5	—	—	11	13	—	—	—

THE RULE IS _____

MORE FROM CARLA!



COMPLETE THE CHARTS BELOW!

IN → OUT

0	0
1	3
2	6
3	
4	
5	
6	
7	
8	
	99

CARLA'S RULE

IN → OUT

0	4
1	5
2	
3	
4	
5	
6	
7	
8	
9	

CARLA'S RULE

IN → OUT

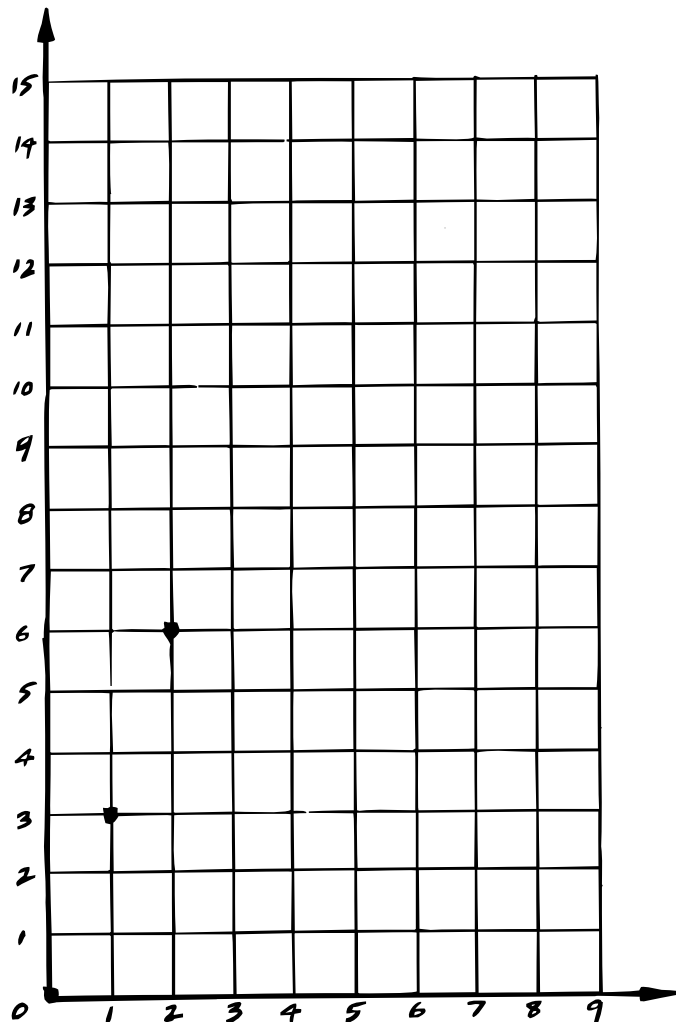
0	2
1	5
2	8
3	
4	
5	
6	
7	
8	
9	

CARLA'S RULE

NOW USING THE GRAPH TRY AND PLOT AS MANY POINTS AS YOU CAN FROM EACH CHART! MAKE THE RESULTS FROM EACH CHART A DIFFERENT COLOUR.

(THE FIRST FEW HAVE BEEN DONE FOR YOU.)

OUT



IN

CARLA'S FINAL CALCULATIONS

COMPLETE THE CHARTS. THEN USE YOUR RESULTS TO DRAW A GRAPH OF EACH CHART. (USE A DIFFERENT COLOUR FOR EACH ONE.)

IN → OUT

-3	0
-2	1
-1	
0	
1	
2	5
3	
4	

CARLA'S RULE

IN → OUT

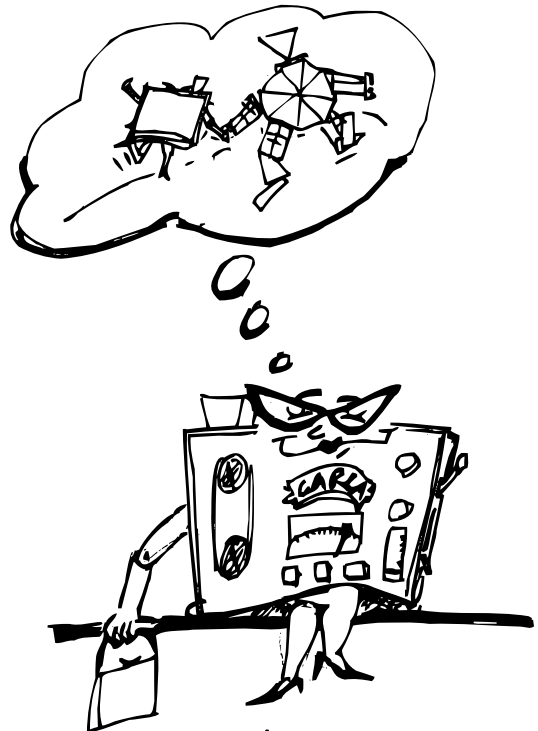
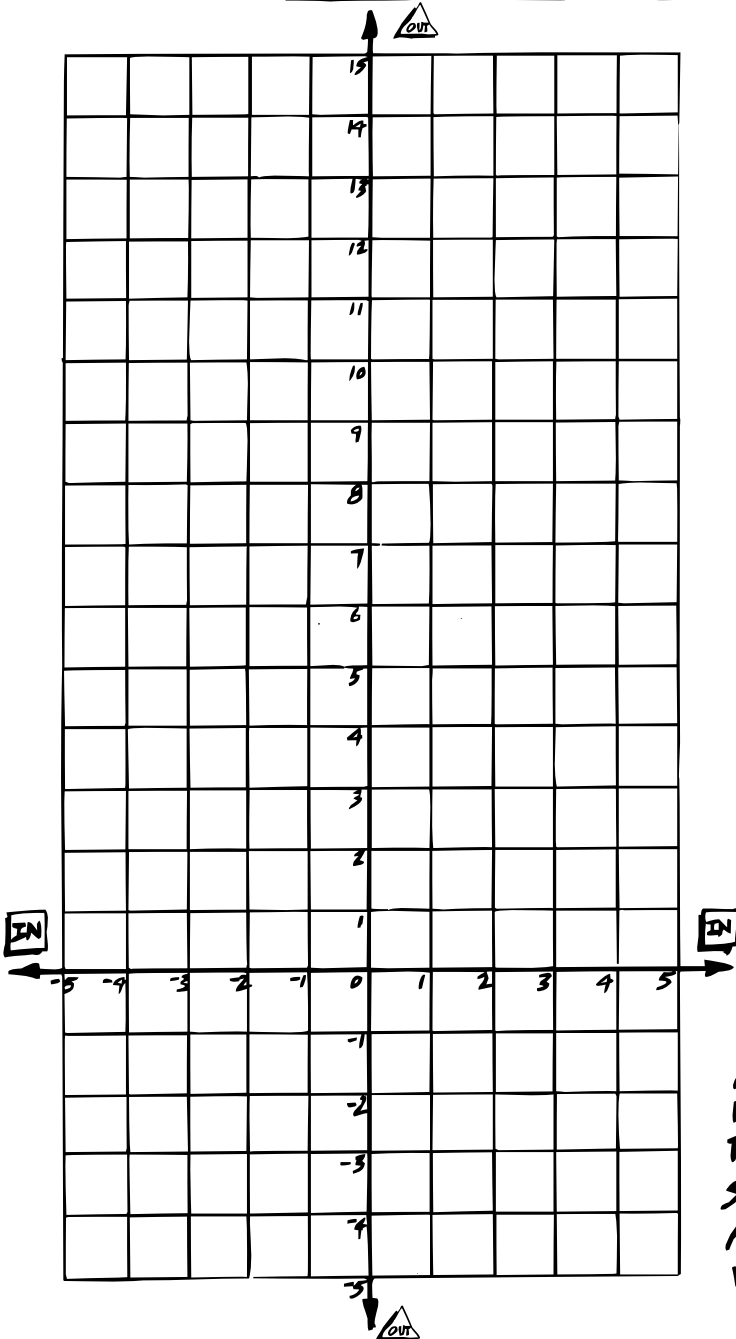
-3	-12
-2	
-1	
0	
1	4
2	
3	
4	16

CARLA'S RULE

IN → OUT

-3	
-2	-4
-1	
0	
1	-1
2	
3	
4	

CARLA'S RULE



AND WHEN CARLA CALCULATOR HAS FINISHED FOR THE DAY SHE LIKES TO SIT BACK AND DREAM OF HER SWEETHEART, FRACTION MAN, AND ALL THE PROBLEMS THEY WILL ONE DAY SOLVE TOGETHER!

WHIZZ-KIDS WORKSHEET



22

NIFTY NUMBERS

$$\begin{aligned} 21 + 13 &= \underline{\hspace{2cm}} \\ 21 - 13 &= \underline{\hspace{2cm}} \\ 20 \times 5 &= \underline{\hspace{2cm}} \\ 28 \div 4 &= \underline{\hspace{2cm}} \\ 29 + 27 &= \underline{\hspace{2cm}} \\ 22 - 15 &= \underline{\hspace{2cm}} \\ 24 \times 3 &= \underline{\hspace{2cm}} \\ 24 \div 3 &= \underline{\hspace{2cm}} \\ 23 - 21 &= \underline{\hspace{2cm}} \\ 34 - 25 &= \underline{\hspace{2cm}} \end{aligned}$$

TRENDY TABLES

$$\begin{aligned} 8 \times 2 &= \underline{\hspace{2cm}} \\ 8 \times 3 &= \underline{\hspace{2cm}} \\ 8 \times 4 &= \underline{\hspace{2cm}} \\ 8 \times 5 &= \underline{\hspace{2cm}} \\ 8 \times \underline{\hspace{1cm}} &= 56 \\ 8 \times \underline{\hspace{1cm}} &= 64 \\ 8 \times \underline{\hspace{1cm}} &= 72 \\ 8 \times 10 &= \underline{\hspace{2cm}} \\ 8 \times 12 &= \underline{\hspace{2cm}} \\ 8 \times \underline{\hspace{1cm}} &= 160 \end{aligned}$$

SOFT SUBSTITUTES

$$\begin{aligned} k = 13, k + 5 &= \underline{\hspace{2cm}} \\ l = 18, l + 12 &= \underline{\hspace{2cm}} \\ m = 19, m - 10 &= \underline{\hspace{2cm}} \\ n = 17, n - 3 &= \underline{\hspace{2cm}} \\ p = 11, 4 + p &= \underline{\hspace{2cm}} \\ r = 16, 20 - r &= \underline{\hspace{2cm}} \\ s = 12, 10s &= \underline{\hspace{2cm}} \\ t = 15, 4t &= \underline{\hspace{2cm}} \\ u = 10, 9u &= \underline{\hspace{2cm}} \\ v = 20, 11v &= \underline{\hspace{2cm}} \end{aligned}$$

EXTRA EXAMPLES

$$\begin{aligned} 35 \text{ ADDED TO } 47 \text{ IS } &\underline{\hspace{2cm}} \\ 25 \text{ TIMES } 20 \text{ IS } &\underline{\hspace{2cm}} \\ \$15.26 + \$11.35 &= \underline{\hspace{2cm}} \\ \$18.75 + \$16.50 &= \underline{\hspace{2cm}} \\ 919 = 900 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} \\ 700 + 30 + 8 &= \underline{\hspace{2cm}} \\ 666 + 440 &= \underline{\hspace{2cm}} \\ 1111 + 2222 &= \underline{\hspace{2cm}} \\ 540 - 380 &= \underline{\hspace{2cm}} \\ 963 - 526 &= \underline{\hspace{2cm}} \end{aligned}$$

THE QUINTUS QUIZ

-FIND THE COST FOR...

- 3 ADULTS ONLY _____
- 2 ADULTS & 1 CHILD _____
- 2 ADULTS & 3 CHILDREN _____
- 1 ADULT & 2 CHILDREN _____
- 4 ADULTS & 5 CHILDREN _____



NUMBER OF MISTAKES _____

“INFORMATION PLEASE!”

TIME TO TAKE A SURVEY IN YOUR CLASS!

- CHOOSE AT LEAST 10 PEOPLE.
- USE THE RESULTS SHEET ON THE NEXT PAGE TO RECORD YOUR FINDINGS!

MY SURVEY ON CLASS _____

THE SURVEY RESULTS WILL BE COMPLETELY CONFIDENTIAL. PLEASE ANSWER ALL THE QUESTIONS HONESTLY!

THANK YOU. SIGNED _____

PERSONAL

- EYE COLOUR _____
- BIRTHDAY MONTH _____
- HAIR COLOUR _____
- AGE _____
- CAR COLOUR _____
- NUMBER OF CHILDREN IN FAMILY _____
- METHOD OF GETTING TO SCHOOL _____

FAVOURITES

- FAVOURITE SCHOOL SUBJECT _____
- FAVOURITE TEACHER _____
- FAVOURITE T.V. PROGRAMME _____
- FAVOURITE POP GROUP _____
- FAVOURITE SPORT _____
- FAVOURITE DAY OF THE WEEK _____

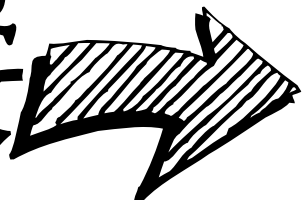


RESULTS PAGE

PUT TALLY MARKS (III II) IN EACH BOX
THEN ADD UP YOUR RESULTS!

EYE COLOUR	BLUE			GREEN			BROWN			OTHER											
	BLACK			BROWN			RED			BLOND			OTHER								
BIRTHDAY MONTH	J	F	M	A	M	J	J	A	S	O	N	D									
CAR COLOUR	_____			_____			_____			_____											
AGE	12			13			14			15			16								
NUMBER OF CHILDREN IN FAMILY	1			2			3			4			5			≥6					
METHOD OF GETTING TO SCHOOL	WALK			BIKE			CAR			BUS			TAXI			OTHER					
FAVOURITE SUBJECT	_____			_____			_____			_____			_____								
FAVOURITE TEACHER	_____			_____			_____			_____			_____								
FAVOURITE T.V. PROGRAMME	_____			_____			_____			_____			_____								
FAVOURITE POP GROUP	_____			_____			_____			_____			_____								
FAVOURITE SPORT	_____			_____			_____			_____			_____								
FAVOURITE DAY OF WEEK	MON			TUES			WED			THURS			FRI			SAT			SUN		

NOW GRAPH YOUR DATA ON THE NEXT PAGE!



**- COMPLETE THESE
GRAPHS BASED
ON YOUR SURVEY
RESULTS!**

1 EYE COLOUR



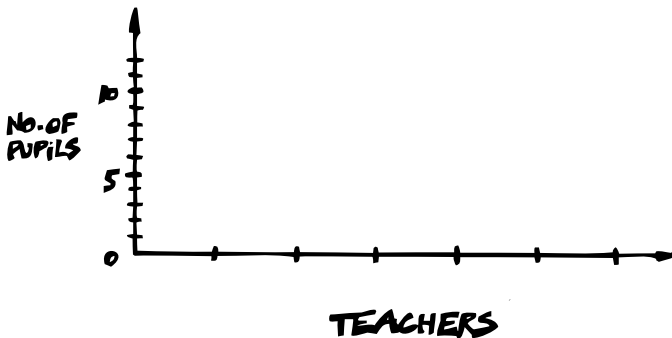
2 METHOD OF GETTING TO SCHOOL



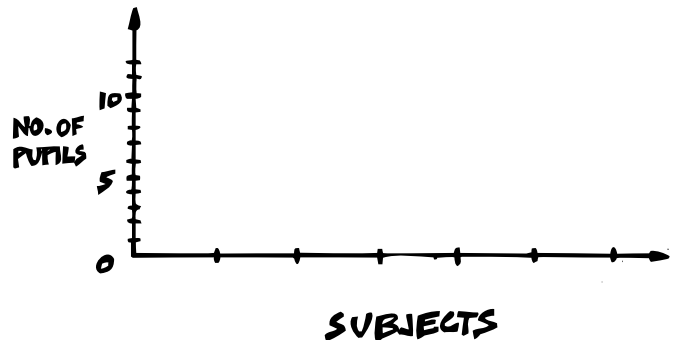
3 CHOOSE ONE OTHER PERSONAL ITEM TO GRAPH



4 FAVOURITE TEACHERS



5 FAVOURITE SUBJECTS



6 CHOOSE ONE OTHER FAVOURITE ITEM TO GRAPH

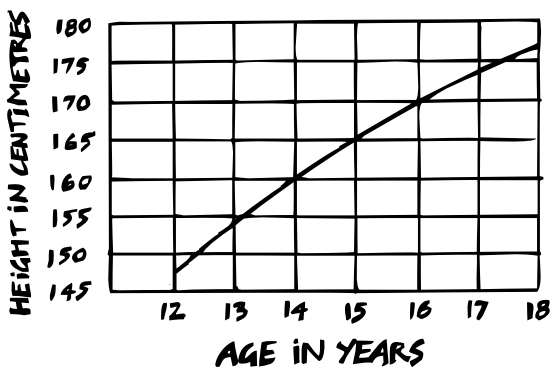


**- NOW EPI RECKONS SURVEYS
ARE FUN, AND UNDERSTANDS
HOW IMPORTANT THEY ARE IN
FINDING INFORMATION, BUT
TRY TO BE MORE
ORGANISED THAN
EPI IN YOUR
SURVEY!**



GRAPHS GRAPHS GRAPHS!

JODY'S HEIGHT FROM AGES 12-18



1 AT WHAT AGE WAS JODY 165cm TALL? _____

2 IN WHICH TWO YEARLY PERIOD DID HER HEIGHT INCREASE MOST?

3 WHAT HEIGHT WAS SHE AT AGE 13? _____

4 IS IT LIKELY THAT SHE WILL GROW MUCH TALLER? _____

5 ESTIMATE HER HEIGHT AT AGE 20 _____

DRAW A LINE GRAPH TO SHOW THIS INFORMATION FOR PUTARURU.

TEMPERATURE	0°	4°	8°	10°	8°	8°	6°
TIME OF DAY	6 AM	8 AM	10 AM	12 NOON	2 PM	4 PM	6 PM



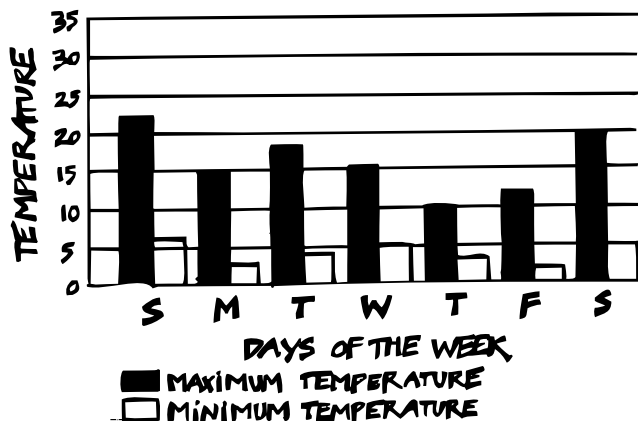
1 AT WHAT TIME WAS THE HIGHEST TEMPERATURE RECORDED? _____

2 AT WHAT TIMES OF THE DAY WAS THE TEMPERATURE 8°? _____

3 IN WHAT 2 HOURLY PERIOD DID THE GREATEST RISE OCCUR? _____

4 WHAT WAS THE TEMPERATURE AT 11 AM? _____

MAXIMUM AND MINIMUM TEMPERATURE READINGS.



1 WHAT INFORMATION IS ON THE VERTICAL AXIS? _____

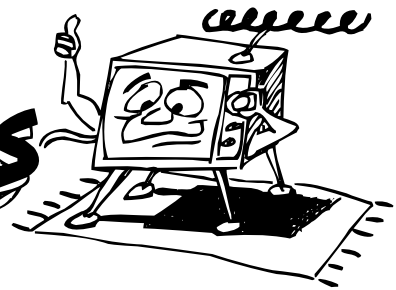
2 WHAT INFORMATION IS ON THE HORIZONTAL AXIS? _____

3 WHAT SCALE HAS BEEN USED ON THE VERTICAL AXIS? _____

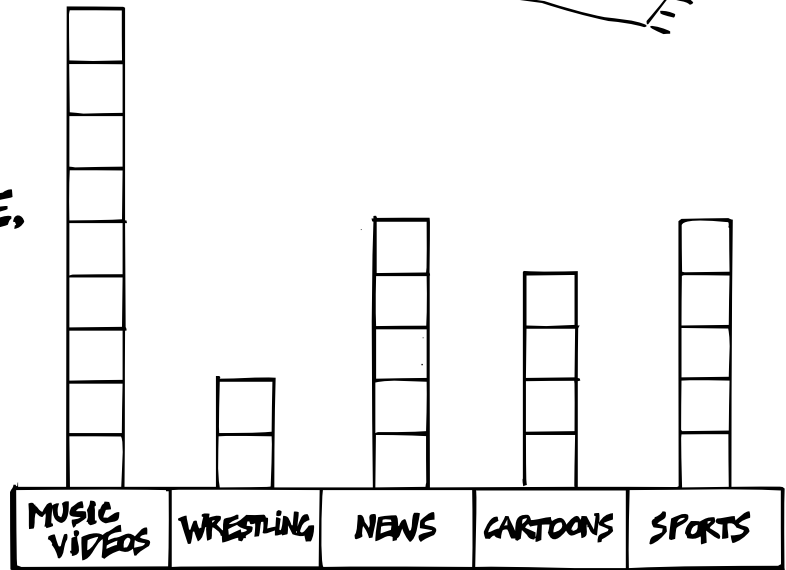
4 WHAT DAY HAD THE HIGHEST TEMPERATURE? _____

5 WHAT WERE THE TEMPERATURES ON SATURDAY? _____

FAVOURITE T.V. SHOWS

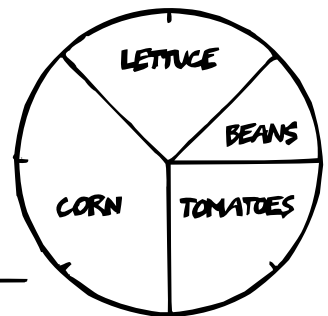


THE PUPILS OF I.N. STEIN COLLEGE EACH DREW A SQUARE ABOVE THEIR FAVOURITE T.V. PROGRAMME. TO MAKE THIS GRAPH!



- WHICH PROGRAMME IS MOST POPULAR? _____
- WHICH PROGRAMMES HAVE EQUAL POPULARITY? _____
- HOW MANY PUPILS IN THE CLASS? _____
- WHAT TYPE OF GRAPH IS THIS CALLED? _____

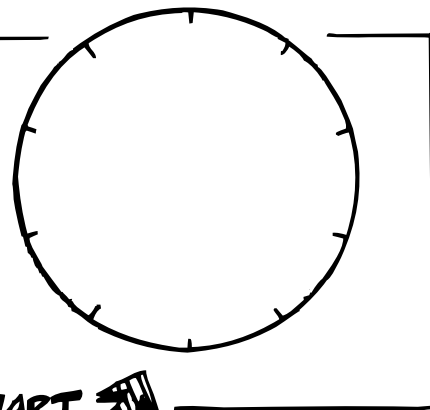
A GARDENER HAS 40 HECTARES OF LAND PLANTED WITH VEGETABLES. A PIE CHART SHOWS HIS CROPS.



- WHAT IS $\frac{1}{8}$ OF 40? _____
- HOW MANY HECTARES OF BEANS IS HE GROWING? _____
- HOW MANY HECTARES OF TOMATOES IS HE GROWING? _____
- HOW MANY HECTARES OF CORN IS HE GROWING? _____
- HOW MANY HECTARES OF CARROTS IS HE GROWING? _____

THE TOPP FAMILY INCOME IS SPENT AS FOLLOWS:

- 20% FOOD
- 30% RENT
- 15% CLOTHES
- 20% BANKED
- 15% OTHER



USE THESE FIGURES TO MAKE A PIE CHART

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$26 + 28 = \underline{\quad}$$

$$25 - 17 = \underline{\quad}$$

$$24 \times 10 = \underline{\quad}$$

$$27 \div 9 = \underline{\quad}$$

$$23 + 24 = \underline{\quad}$$

$$29 - 22 = \underline{\quad}$$

$$21 \times 12 = \underline{\quad}$$

$$22 \div 11 = \underline{\quad}$$

$$28 - 13 = \underline{\quad}$$

$$38 - 29 = \underline{\quad}$$



FANTASTIC FRACTIONS

$$\frac{1}{3} \text{ OF } 3 = \underline{\quad}$$

$$\frac{1}{3} \text{ OF } 9 = \underline{\quad}$$

$$\frac{1}{3} \text{ OF } 21 = \underline{\quad}$$

$$\frac{1}{4} \text{ OF } 4 = \underline{\quad}$$

$$\frac{1}{4} \text{ OF } 12 = \underline{\quad}$$

$$\frac{1}{5} \times \frac{1}{5} = \underline{\quad}$$

$$\frac{1}{5} + \frac{1}{5} = \underline{\quad}$$

$$\frac{3}{7} \times \frac{4}{11} = \underline{\quad}$$

$$\frac{8}{9} + \frac{5}{9} = \underline{\quad}$$

$$\frac{8}{9} - \frac{5}{9} = \underline{\quad}$$

MIGHTY METRICS

$$30\text{g} + 90\text{g} = \underline{\quad}$$

$$64\text{g} + 46\text{g} = \underline{\quad}$$

$$22\text{l} - 12\text{l} = \underline{\quad}$$

$$58\text{l} - 29\text{l} = \underline{\quad}$$

$$\underline{\quad}\text{m} = 1.2\text{km}$$

$$\underline{\quad}\text{m} = 1.567\text{km}$$

$$4000\text{mg} = \underline{\quad}\text{g}$$

$$4200\text{mg} = \underline{\quad}\text{g}$$

$$200\text{cm} = \underline{\quad}\text{m}$$

$$234\text{cm} = \underline{\quad}\text{m}$$

EXTRA EXAMPLES

$\underline{\quad}$ DAYS IN 1 YEAR

24 HOURS = $\underline{\quad}$ DAY

$$1.7 + 1.8 = \underline{\quad}$$

$$2.4 - 1.6 = \underline{\quad}$$

$$0.5 \times 3 = \underline{\quad}$$

$$1.5 \div 5 = \underline{\quad}$$

48, 24, $\underline{\quad}$, 6

$$1234 + 4321 = \underline{\quad}$$

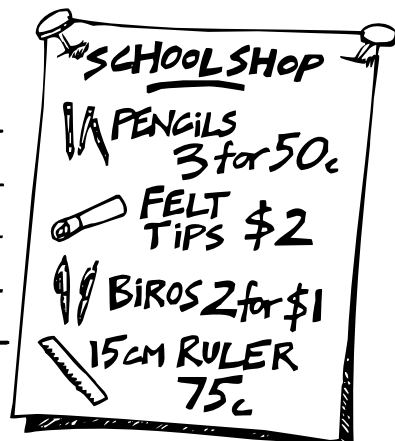
$$777 - 555 = \underline{\quad}$$

$$10^2 = \underline{\quad}$$

THE QUINTUS QUIZ

-FIND THE COST OF...

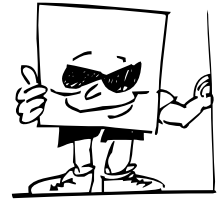
- 12 FELT TIPS $\underline{\hspace{2cm}}$
- 30 PENCILS $\underline{\hspace{2cm}}$
- 20 RULERS $\underline{\hspace{2cm}}$
- 10 BIROS $\underline{\hspace{2cm}}$
- 15 FELT TIPS & 10 BIROS $\underline{\hspace{2cm}}$



NUMBER OF MISTAKES $\underline{\hspace{2cm}}$

- COMMON TABLES

- COMPLETE THIS TIMESTABLE!



X	10	11	12	13	14	15	20	50	100
1									
2									
3									
4									
5									
6									
7									
8									

TABLES COME IN ALL SORTS OF FORMS!
DO YOU KNOW YOUR SCHOOL TIMETABLE?
FILL IT IN BELOW!

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6
1						
2						
3						
4						
5						
6						

CAN YOU THINK OF ANY OTHER TABLES YOU COME ACROSS EVERYDAY?

1 _____ **2** _____ **3** _____

LET'S GO ROLLER SKATING WITH... DIVINE DIANNE THE DIVIDING DOORMOUSE!



— NOW DIANNE THOUGHT SKATING
WOULD BE LIKE DIVISION — EASY!

THE TIMETABLE AT DI'S LOCAL RINK



DAY	SESSION TIMES	AGE	ADULT COST	JUNIOR COST	SKATE HIRE
MONDAY-THURSDAY	6PM-9PM	ANY AGE	\$7.00	\$4.00	\$1.00
FRIDAY AFTERNOON	4PM-6PM	UNDER 15		\$3.00	\$1.00
FRIDAY EVENING	7.15PM-9PM	ANY AGE	\$5.00	\$3.00	\$1.00
SATURDAY MORNING	9AM-12NOON	UNDER 15		\$3.00	\$1.00
SATURDAY AFTERNOON	1.30PM-5.15PM	ANY AGE	\$7.00	\$4.00	\$1.00

— WHICH DAYS HAVE SKATING UNTIL 9PM? _____

— WHEN IS SKATING FOR 'UNDER 15'S' ONLY? _____

— WHICH SESSION IS THE LONGEST? _____

HOW LONG? _____

— DI WENT ON FRIDAY AFTERNOON AT 4.45PM. SHE COULD SKATE FOR _____ MINUTES.

— DI WENT WITH 3 FRIENDS ALL AGED 13. THEY ALL HIRED SKATES. HOW MUCH DID IT COST IN TOTAL? \$ _____

— MRS MATAI AND HER 2 CHILDREN WENT TO THE SATURDAY AFTERNOON SESSION. THEY OWN THEIR SKATES. HOW MUCH DID IT COST? \$ _____

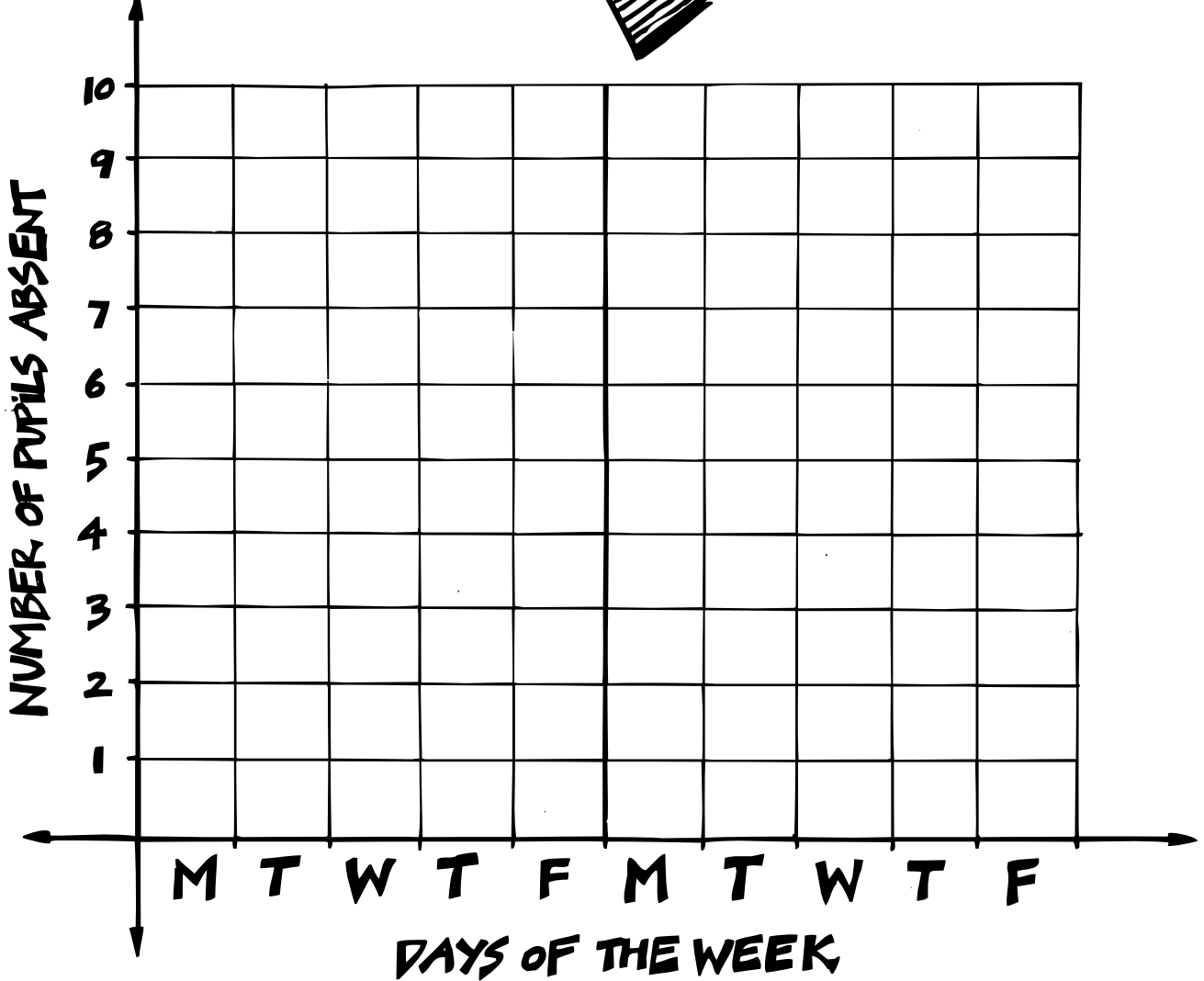
— WHICH SESSION GIVES THE BEST VALUE FOR MONEY? _____

DIANNE RECKONS SHE'LL STICK WITH DIVISION.
IT LEAVES HER WITH WARM FUZZIES,
NOT BRUISEY BUMPIES!

THE REGISTER



- KEEP A RECORD OF HOW MANY STUDENTS ARE ABSENT IN YOUR CLASS EACH DAY!
- KEEP YOUR RECORD FOR 2 WEEKS AND RECORD YOUR RESULTS ON THE GRAPH BELOW!



WHAT DOES THE GRAPH SHOW? _____

ASK YOUR TEACHER TO SHOW YOU THE CLASS REGISTER. HOW IS IT RECORDED? _____

- EPI'S EXCELLENT HOLIDAY TRAVEL GUIDE

THIS TABLE SHOWS YOU THE DISTANCES IN KILOMETRES BETWEEN SOME SOUTH ISLAND TOWNS!

	WESTPORT	TIMARU	QUEENSTOWN	NELSON	MOUNT LOOK	MILFORD SOUND	INVERCARGILL	GREYMOUTH	DUNEDIN	CHRISTCHURCH	BLENHEIM	ALEXANDRA
ALEXANDRA	822	316	90	905	274	418	274	660	188	472	788	
BLENHEIM	266	486	822	117	655	1092	921	331	690	322		
CHRISTCHURCH	339	164	498	440	333	770	587	255	366			
DUNEDIN	705	202	294	808	339	403	222	559				
GREYMOUTH	104	355	605	295	503	911	780					
INVERCARGILL	936	424	194	1029	475	266						
MILFORD SOUND	1016	604	279	1211	594							
MOUNT LOOK	599	212	286	788								
NELSON	231	603	939									
QUEENSTOWN	710	342										
TIMARU	502											
WESTPORT												



= HOW FAR IS IT FROM...

BLENHEIM TO CHRISTCHURCH _____ TIMARU TO WESTPORT _____

MT. LOOK TO ALEXANDRA _____ ALEXANDRA TO NELSON _____

NELSON TO GREYMOUTH _____ GREYMOUTH TO BLENHEIM _____

= EPI AND POLLY GO ON A BUS TOUR FROM CHRISTCHURCH TO GREYMOUTH, ON TO ALEXANDRA AND TIMARU, THEN BACK TO CHRISTCHURCH. HOW FAR DID THEY TRAVEL? _____

= IS IT QUICKER TO TRAVEL FROM NELSON TO DUNEDIN VIA CHRISTCHURCH OR GREYMOUTH? _____

= THE FINAL JOURNEYS!

WESTPORT IS 104 km FROM _____

ALEXANDRA IS 418 km FROM _____

CHRISTCHURCH IS 339 km FROM _____

EPPIE'S AMAZING ALPHABET EXPERIMENT!

-YOU'LL NEED A PAGE OF WRITING FOR THIS EXPERIMENT.



FROM THE RESULTS OF THIS EXPERIMENT WE LEARN ABOUT HOW OFTEN DIFFERENT LETTERS ARE USED IN THE ENGLISH LANGUAGE!

TALLY HOW MANY TIMES EACH LETTER APPEARS AND ANSWER THE QUESTIONS BELOW!

	TALLY		TALLY
A		N	
B		O	
C		P	
D		Q	
E		R	
F		S	
G		T	
H		U	
I		V	
J		W	
K		X	
L		Y	
M		Z	

1 WHICH LETTER IS LEAST FREQUENT.

2 WHICH VOWEL IS MOST FREQUENT?

3 LIST THE 5 MOST USED LETTERS

WHAT DOES THE TALLY TABLE SHOW?

YOU COULD TRY THIS EXPERIMENT WITH ANOTHER LANGUAGE!
REPEAT THE QUESTIONS!

▣ WHICH LETTER IS LEAST FREQUENT? _____

▣ WHICH VOWEL IS MOST FREQUENT? _____

▣ LIST THE 5 MOST USED LETTERS _____

▣ WHAT DOES THE TALLY TABLE SHOW? _____

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{array}{ll}
 11 + 19 = \underline{\quad} & 15 - 8 = \underline{\quad} \\
 20 - 15 = \underline{\quad} & 30 + 12 = \underline{\quad} \\
 3 \times 21 = \underline{\quad} & 28 \div 4 = \underline{\quad} \\
 56 + 12 = \underline{\quad} & 15 + 19 = \underline{\quad} \\
 74 - 36 = \underline{\quad} & 70 \div 5 = \underline{\quad} \\
 44 - 27 = \underline{\quad} & 2 \times 25 = \underline{\quad} \\
 2 \times 140 = \underline{\quad} & 100 \div 20 = \underline{\quad} \\
 150 \div 5 = \underline{\quad} & 100 - 80 = \underline{\quad} \\
 63 \div 3 = \underline{\quad} & 60 + 34 = \underline{\quad} \\
 109 + 5 = \underline{\quad} & 150 \times 2 = \underline{\quad}
 \end{array}$$

TRENDY TABLES

$$\begin{array}{l}
 9 \times 4 = \underline{\quad} \\
 9 \times 7 = \underline{\quad} \\
 9 \times 11 = \underline{\quad} \\
 9 \times 9 = \underline{\quad} \\
 9 \times 5 = \underline{\quad} \\
 9 \times 8 = \underline{\quad} \\
 9 \times 12 = \underline{\quad} \\
 9 \times 6 = \underline{\quad} \\
 9 \times 3 = \underline{\quad} \\
 9 \times 13 = \underline{\quad}
 \end{array}$$

SILLY SEQUENCES

COMPLETE THE SEQUENCES AND WORK OUT THE TOTALS OF EACH ROW & COLUMN!

1	3	5	7	9	11	13	15	17	19	21	
1	4	7	10								
1	5	9	13								
1	6	11	16								
1	7	13	19								
1	8	15	22								

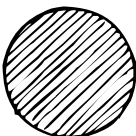
TOTAL OF ROWS



TOTAL OF EACH COLUMN

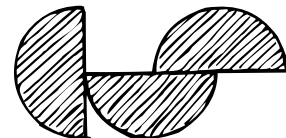
- WHAT IS THE PATTERN IN THE LAST COLUMN? _____
- WHAT IS THE PATTERN IN EACH ROW TOTAL? _____
- WHAT IS THE PATTERN IN EACH COLUMN TOTAL? _____

RELATIVE RELATIONS

IF  = 20, FIND THE VALUE OF EACH OF THESE







NUMBER OF MISTAKES _____

GET INTO GEAR FOR SOME... ...RACEWAY MATHS!

$\begin{array}{r} 123 \\ 243 \\ \hline 115 \end{array}$	$\begin{array}{r} 65 \\ 373 \\ \hline 400 \end{array}$	$\begin{array}{r} 273 \\ 647 \\ \hline 189 \end{array}$	$\begin{array}{r} 463 \\ 840 \\ \hline 406 \end{array}$	$\begin{array}{r} 413 \\ 909 \\ \hline 286 \end{array}$
---	--	---	---	---

$\begin{array}{r} 342 \\ 153 \\ 265 \\ \hline 104 \end{array}$	$\begin{array}{r} 212 \\ 567 \\ 658 \\ \hline 896 \end{array}$	$\begin{array}{r} 119 \\ 400 \\ 589 \\ \hline 779 \end{array}$	$\begin{array}{r} 313 \\ 694 \\ 507 \\ \hline 899 \end{array}$	$\begin{array}{r} 511 \\ 143 \\ 349 \\ \hline 97 \end{array}$
--	--	--	--	---

$\begin{array}{r} 322 \\ -115 \\ \hline \end{array}$	$\begin{array}{r} 420 \\ -240 \\ \hline \end{array}$	$\begin{array}{r} 243 \\ -144 \\ \hline \end{array}$	$\begin{array}{r} 463 \\ -265 \\ \hline \end{array}$	$\begin{array}{r} 342 \\ -258 \\ \hline \end{array}$
--	--	--	--	--

$\begin{array}{r} 524 \\ -236 \\ \hline \end{array}$	$\begin{array}{r} 637 \\ -548 \\ \hline \end{array}$	$\begin{array}{r} 505 \\ -377 \\ \hline \end{array}$	$\begin{array}{r} 705 \\ -248 \\ \hline \end{array}$	$\begin{array}{r} 243 \\ -67 \\ \hline \end{array}$
--	--	--	--	---

$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 24 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 55 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 44 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ \times 5 \\ \hline \end{array}$
---	---	---	---	---	---

$2 \overline{)158}$	$3 \overline{)354}$	$4 \overline{)620}$	$5 \overline{)335}$	$6 \overline{)4866}$	$7 \overline{)6370}$
$10 \overline{)9900}$	$9 \overline{)8181}$	$8 \overline{)8808}$	$7 \overline{)3283}$	$6 \overline{)76542}$	

**— DO-DA-CRAZY
DECIMAL
SQUARES!**

+	2.9	7.2	10.5	x	0.2	0.9	1.2
0.3				6			
0.8				0.1			
1.6				0.5			

"SOMETIMES ACCURACY IS BETTER THAN SPEED!"
DID YOU GET THE COURSE RECORD?

- ARITHMETIC APTITUDE

- USE YOUR NUMBER SKILLS TO FILL IN EACH GAP TO COMPLETE THE EQUATIONS BELOW!

$$\begin{array}{lll}
 12 + 6 = 15 + \underline{\quad} & (3 + 8) - 4 = \underline{\quad} & 13 + 8 = \underline{\quad} + 13 \\
 16 + 5 = 14 + \underline{\quad} & (7 + 9) + \underline{\quad} = 20 & 36 - \underline{\quad} = 20 + 16 \\
 15 + \underline{\quad} = 9 + 6 & (9 - 3) + \underline{\quad} = 15 & 9 + 9 = \underline{\quad} + 8 \\
 4 + \underline{\quad} = 18 + 6 & (12 + 3) - 8 = \underline{\quad} & 6 + 45 = 40 + \underline{\quad} \\
 8 + 9 = \underline{9} + 8 & (12 - 8) + 3 = \underline{\quad} & 16 + 0 = \underline{\quad} + 6
 \end{array}$$

NOW WRITE \times OR \div IN EACH \triangle TO MAKE TRUE SENTENCES!

$$\begin{array}{lll}
 6 \triangle 3 = 18 & 24 \triangle 2 = 48 & 8 \triangle 9 = 72 \\
 4 \triangle 9 = 36 & 70 \triangle 7 = 10 & 6 \triangle 6 = 1 \\
 18 \triangle 6 = 3 & 60 \triangle 10 = 600 & 36 \triangle 9 = 4 \\
 20 \triangle 5 = 100 & 50 \triangle 5 = 10 & 48 \triangle 2 = 96
 \end{array}$$

- COMPLETE THESE NUMBER SENTENCES

$$\begin{array}{lll}
 16 + 4 = 10 + \underline{\quad} & 100 - 10 = 9 \times \underline{\quad} & (4 \times 6) + \underline{\quad} = 30 \\
 3 \times 9 = 22 + \underline{\quad} & 3 \times 2 \times \underline{\quad} = 30 & (3 \times 7) - 8 = \underline{\quad} \\
 26 - 8 = \underline{\quad} + 8 & (12 \div 6) \div 2 = \underline{\quad} & (6 \times 6) + \underline{\quad} = 43 \\
 19 + 7 = 30 - \underline{\quad} & 12 \div (6 \div 2) = \underline{\quad} & (4 \times 8) + 9 = \underline{\quad} \\
 48 \div 8 = \underline{\quad} + 3 & 8 \times (2 + 7) = \underline{\quad} & (7 \times 8) - \underline{\quad} = 49 \\
 42 \div \underline{\quad} = 9 - 3 & (8 \times 2) + 7 = \underline{\quad} & (6 \times \underline{\quad}) + 8 = 38 \\
 & 20 - \underline{\quad} = 8 \times 2 & (\underline{\quad} \times 9) - 5 = 40
 \end{array}$$

... AND FINALLY

\times	5	10	15	20
7				
12				
20				

$+$	13	46	78	119
25				
52				
87				



HEY, WORK POSITIVELY!

THE MAGICAL MIND READER

COPY THE FOLLOWING ONTO 6 CARDS. SHOW THEM TO A FRIEND. ASK THEM TO SELECT ONE NUMBER FROM ANY CARD. NOW GET THEM TO TELL YOU WHICH CARDS THEIR NUMBER APPEARS ON. ADD TOGETHER THE NUMBER ON THE TOP LEFT HAND CORNER OF THOSE CARDS. THE TOTAL WILL BE YOUR FRIEND'S NUMBER!

1	3	5	7	9	11	13	15
17	19	21	23	25	27	29	31
33	35	37	39	41	43	45	47
49	51	53	55	57	59	61	63

CARD A

2	3	6	7	10	11	14	15
18	19	22	23	26	27	30	31
34	35	38	39	42	43	46	47
50	51	54	55	58	59	62	63

CARD B

4	5	6	7	12	13	14	15
20	21	22	23	28	29	30	31
36	37	38	39	44	45	46	47
52	53	54	55	60	61	62	63

CARD C

8	9	10	11	12	13	14	15
24	25	26	27	28	29	30	31
40	41	42	43	44	45	46	47
56	57	58	59	60	61	62	63

CARD D

16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63

CARD E

32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63

CARD F



WHIZZ-KIDS WORKSHEET



NIFTY NUMBERS

$$\begin{array}{ll}
 5 + 27 = \underline{\quad} & 15 - 7 = \underline{\quad} \\
 20 - 12 = \underline{\quad} & 40 \div 8 = \underline{\quad} \\
 68 + 9 = \underline{\quad} & 81 \div 9 = \underline{\quad} \\
 92 - 11 = \underline{\quad} & 49 \div 7 = \underline{\quad} \\
 7 \times 45 = \underline{\quad} & 36 \div 6 = \underline{\quad} \\
 18 \times 6 = \underline{\quad} & 45 + 45 = \underline{\quad} \\
 300 \div 60 = \underline{\quad} & 90 \div 2 = \underline{\quad} \\
 200 \div 200 = \underline{\quad} & 100 \div 4 = \underline{\quad} \\
 3 \times 24 = \underline{\quad} & 3 \times 36 = \underline{\quad} \\
 108 - 92 = \underline{\quad} & 105 \times 5 = \underline{\quad}
 \end{array}$$

VISCOUS VARIABLES

$$\begin{array}{l}
 a + a + a + a + a = \underline{\quad} \\
 4b + 2b + 3b = \underline{\quad} \\
 4x + 2x + 2y + 4y = \underline{\quad} \\
 (2b + 3b) \times 4 = \underline{\quad} \\
 4y \div 2y = \underline{\quad} \\
 6x \cdot 2 = \underline{\quad} \\
 4a + 2a + 3b = \underline{\quad} \\
 5k - 5k = \underline{\quad} \\
 8c + 2c + 50c = \underline{\quad} \\
 9a \cdot 2 = \underline{\quad}
 \end{array}$$

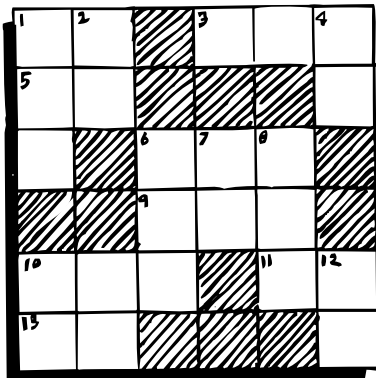
EASY EQUATIONS

$$\begin{array}{l}
 20 = \underline{\quad} \times 5 \\
 24 \div \underline{\quad} = 6 \\
 12 \times 2 = 8 \times \underline{\quad} \\
 5 \times \underline{\quad} = 15 \times 1 \\
 20 + 4 = 6 \times \underline{\quad} \\
 38 \div 2 = 15 + \underline{\quad} \\
 18 - 3 = 5 \times \underline{\quad} \\
 \frac{1}{2} \text{ OF } \underline{\quad} = 10 \\
 12 - 4 + 4 = \underline{\quad} \\
 \underline{\quad} + 40 = 20
 \end{array}$$

MONEY MIXTURES

COST OF 4 ICECREAMS AT 70c EACH _____
 $\frac{1}{2}$ OF \$5 _____
 SPEND \$3.70, CHANGE FROM \$5 _____
 $\frac{1}{2}$ kg OF RICE AT 90c/kg _____
 \$800 + \$30 _____
 2 SAUSAGE ROLLS AT 45c EACH _____
 _____ CHANGE FROM \$1 FOR 2 SAUSAGE ROLLS _____

CROSS NUMBER



DOWN

- 1, 2) 1626
- 3, 5 x 5
- 4, 5 x 11
- 6, 200 + 50
- 7, 7 x 7
- 8, DOUBLE 101

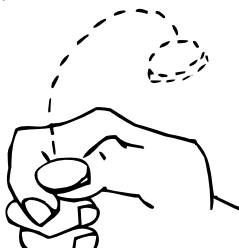


ACROSS

- 1, $\frac{1}{2}$ OF 164
- 2, 21 x 5
- 3, 45 ÷ 3
- 4, DOUBLE 121
- 5, 500 + 90
- 6, TRIPLE 200

NUMBER OF MISTAKES _____

DO-DA-CRAZY COIN FLIP!!

-AND LEARN ABOUT PROBABILITY!

<p>WHEN WE FLIP A COIN...</p> 	<p>...THE CHANCE OF HEADS COMING UP IS THE SAME AS TAILS!</p> 	<p>THAT'S A 50-50 CHANCE WE COULD ALSO SAY THE CHANCE IS 1 OUT OF 2 OR $\frac{1}{2}$</p>	<p>IF YOU FLIP THE COIN 100 TIMES WHAT DO YOU THINK WILL HAPPEN? TRY IT AND SEE!</p> 
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-RECORD ALL YOUR RESULTS IN THE TALLY TABLE BELOW

HEADS	TAILS

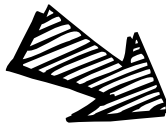
FLIP THE COIN FOR A TOTAL OF 100 TIMES. DON'T FORGET TO TALLY EACH FLIP ON THE TABLE!

WHAT HAPPENED AFTER 100 FLIPS? _____

IS THE FINAL OUTCOME "50-50"? _____

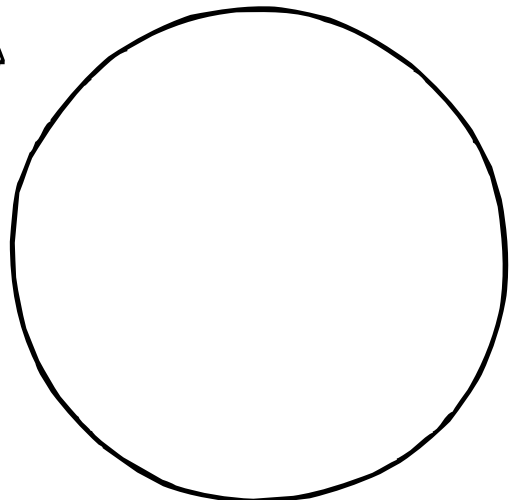
THE PROBABILITY OF TAILS TURNING UP IS _____

DRAW YOUR RESULTS ON A PIE GRAPH.

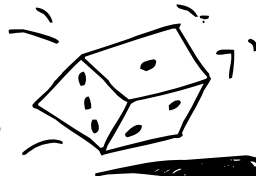


- LIST 5 OTHER EXPERIMENTS WHICH WOULD HAVE EQUAL OUTCOMES.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____



DICEY DILEMMA



PROBABILITY IS THE STUDY OF HOW OFTEN SOMETHING MIGHT HAPPEN. THE BEST WAY TO LEARN ABOUT PROBABILITY IS BY EXPERIMENTING. IN THIS ACTIVITY, YOU EXPERIMENT WITH DICE!

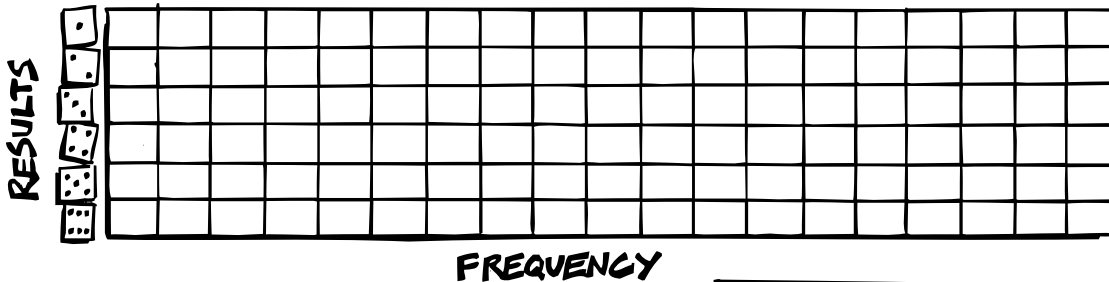
TOSS THE DIE AND RECORD THE OUTCOME IN THE TALLY TABLE. REPEAT 60 TIMES!

OUTCOME	TALLY	TOTAL
1		
2		
3		
4		
5		
6		

WHAT PATTERNS DID YOU NOTICE?

WHICH OUTCOME IS MOST POPULAR?

DRAW YOUR RESULTS ON A PICTOGRAPH!



TO CALCULATE PROBABILITY, $P =$
IF WE ROLLED THE DICE ONCE MORE, CALCULATE...

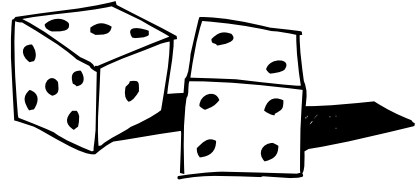
$P(\text{GETTING A ONE}) =$ _____ $P(\text{GETTING A FOUR}) =$ _____

$P(\text{GETTING A TWO}) =$ _____ $P(\text{GETTING A FIVE}) =$ _____

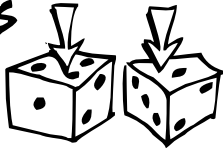
$P(\text{GETTING A THREE}) =$ _____ $P(\text{GETTING A SIX}) =$ _____

ADD ALL THESE PROBABILITIES TOGETHER. WHAT DO YOU GET? WHY?

... 100 THROWS? - YOU NEED A PAIR OF DICE!



IF YOU ROLL BOTH DICE, THEN ADD THE 2 NUMBERS



THE SUMS YOU CAN GET ARE: 2, 3, 4, 5, 6

7, 8, 9, 10, 11, 12. THROW THE DICE

100 TIMES AND RECORD THE 'SUMS' YOU GET!

POSSIBLE SUMS	TALLY	TOTAL
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

WHICH OUTCOME IS MOST POPULAR?

WHICH OUTCOME IS LEAST POPULAR?

USE YOUR EXPERIMENT RESULTS TO CALCULATE THE PROBABILITIES BELOW!

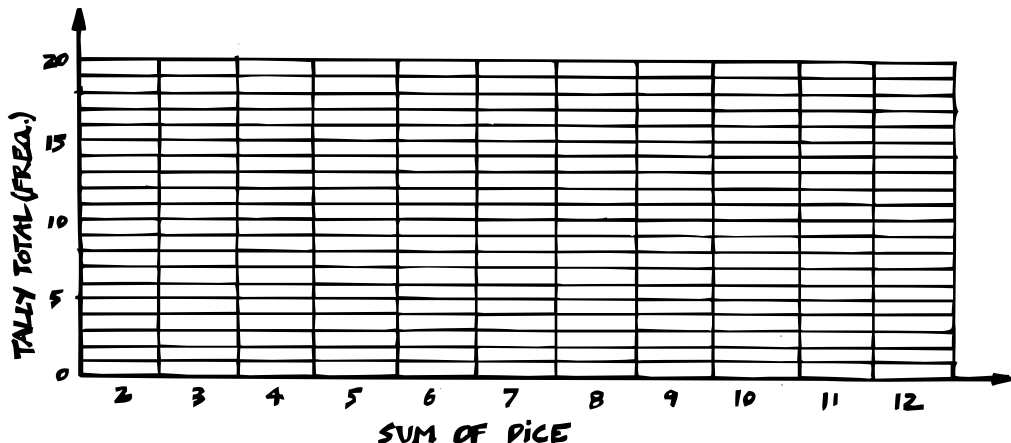
- PROBABILITY OF GETTING A SUM OF 4 = _____

- PROBABILITY OF GETTING A SUM OF 7 = _____

- PROBABILITY OF GETTING A SUM OF 12 = _____

ARE THESE ANSWERS THE SAME? _____ WHY? _____

DRAW YOUR RESULTS ON A BAR GRAPH!



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{aligned} 38 - 16 &= \underline{\quad} \\ 46 + 49 &= \underline{\quad} \\ 48 + 45 &= \underline{\quad} \\ 53 - 27 &= \underline{\quad} \\ 40 \times 11 &= \underline{\quad} \\ 32 \times 4 &= \underline{\quad} \\ 28 \times 7 &= \underline{\quad} \\ 45 \div 9 &= \underline{\quad} \\ 32 \div 8 &= \underline{\quad} \\ 64 - 26 &= \underline{\quad} \end{aligned}$$

DANDY DECIMALS

$$\begin{aligned} 1.6 + 1.7 &= \underline{\quad} \\ 2.3 + 1.9 &= \underline{\quad} \\ 2.5 + 3.5 &= \underline{\quad} \\ 1.9 - 0.8 &= \underline{\quad} \\ 2.4 - 1.6 &= \underline{\quad} \\ 10 \times 5.61 &= \underline{\quad} \\ 100 \times 23.4 &= \underline{\quad} \\ 43.2 \div 10 &= \underline{\quad} \\ 69\% \text{ AS A DECIMAL IS } &\underline{\quad} \\ 9\% \text{ AS A DECIMAL IS } &\underline{\quad} \end{aligned}$$

RADICAL ROMANS

$$\begin{aligned} \text{LII} &= \underline{\quad} \\ \text{LXXV} &= \underline{\quad} \\ \text{CXXV} &= \underline{\quad} \\ \text{CC} &= \underline{\quad} \\ \text{MM} &= \underline{\quad} \\ \underline{\quad} &= 50 \\ \underline{\quad} &= 100 \\ \underline{\quad} &= 300 \\ \underline{\quad} &= 1000 \\ \underline{\quad} &= 3000 \end{aligned}$$



26

EXTRA EXAMPLES

$$\begin{aligned} 471 + 400 &= \underline{\quad} \\ 800 + 800 &= \underline{\quad} \\ 600 - 321 &= \underline{\quad} \\ 700 - 490 &= \underline{\quad} \\ 110 \times 5 &= \underline{\quad} \\ 234 \times 10 &= \underline{\quad} \\ 432 \div 100 &= \underline{\quad} \\ 800 \div 40 &= \underline{\quad} \\ 999 + 888 &= \underline{\quad} \\ 999 - 888 &= \underline{\quad} \end{aligned}$$

THE QUINTUS QUIZ

I LEFT HOME AT _____
IT TOOK _____ MINUTES TO
GET TO SCHOOL. SCHOOL WENT
FOR _____ HOURS. SUPPER
WAS AT _____ TODAY. I WAS
OUT OF BED FOR _____ HOURS.


- FRIDAY -
OUT OF BED 7:15
LEFT HOME 8:05
GOT TO SCHOOL 8:40
SCHOOL FINISHED 3:10
ARRIVED HOME 4:00
SUPPERTIME 9:25
INTO MY BED 11:30

NUMBER OF MISTAKES _____

INTRODUCING...

THE TOPPS OF AVERAGE TOWN!



WHAT ARE THESE AVERAGES WE OFTEN USE?

- = MODE _____
- = MEDIAN _____
- = MEAN _____
- = RANGE _____

THE TOPP'S FAMILY STATISTICS

WHO	AGE	I.Q.	MASS kg
DAD TOPP	40	100	80
MUM TOPP	35	110	50
TAI TOPP	13	120	35
ANA TOPP	6	110	30
KIKI TOPP	6	110	25

- MODE AGE _____ MEAN AGE _____ MEDIAN AGE _____
 AGE RANGE _____ MEAN MASS _____ MASS RANGE _____
 MEDIAN MASS _____ MODE I.Q. _____ MEAN I.Q. _____
 I.Q. RANGE _____ MEDIAN I.Q. _____ THE LIGHTEST TOPP IS _____

TOPP TALLIES!

TAI'S HOURS DOING HOMEWORK
 LAST WEEK: 2, 4, 2, 1, 3, 0.
 MODE TIME _____
 MEDIAN TIME _____
 MEAN TIME _____
 RANGE OF TIMES _____

DAD'S GOLF SCORES LAST
 YEAR WERE:
 72, 66, 70, 67, 73, 68, 74
 RANGE OF SCORES _____
 MEDIAN SCORE _____
 MEAN SCORE _____
 BEST ROUND _____

... AND SOME OF YOUR OWN STATISTICS!

THE MEAN AGE OF OUR CLASS IS _____

THE MODE AGE OF OUR CLASS IS _____

THE MEDIAN TIME I SPEND SLEEPING _____

WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$17 - 15 = \underline{\quad}$$

$$43 + 16 = \underline{\quad}$$

$$19 + 17 = \underline{\quad}$$

$$42 - 13 = \underline{\quad}$$

$$13 \times 8 = \underline{\quad}$$

$$7 \times 11 = \underline{\quad}$$

$$12 \times 60 = \underline{\quad}$$

$$32 \div 4 = \underline{\quad}$$

$$84 \div 12 = \underline{\quad}$$

$$37 + 24 = \underline{\quad}$$

MONEY MIXTURES

$$48c + 17c = \underline{\quad}$$

$$48c - 17c = \underline{\quad}$$

$$4 \times 30c = \underline{\quad}$$

$$25c + 60c + 24c = \underline{\quad}$$

$$\$2 + \$3 + \$12 = \underline{\quad}$$

HOW MANY 10c COINS MAKE \$9?

HOW MANY 20c COINS MAKE \$4?

$$56c + 28c = \underline{\quad}$$

$$56c - 28c = \underline{\quad}$$

$$\$1.32 + \$2.31 = \underline{\quad}$$

VISCIOS VARIABLES

$$a + a + a = \underline{\quad}$$

$$b + 2b = \underline{\quad}$$

$$3c + 4c = \underline{\quad}$$

$$5d + 7d = \underline{\quad}$$

$$2e - e = \underline{\quad}$$

$$14f - 4f = \underline{\quad}$$

$$10g - 5g = \underline{\quad}$$

$$6h + 2h = \underline{\quad}$$

$$17i + 7i = \underline{\quad}$$

$$6j - 6j = \underline{\quad}$$

EXTRA EXAMPLES

$$500 + 216 = \underline{\quad}$$

$$180 - 94 = \underline{\quad}$$

$$8 \times 60 = \underline{\quad}$$

$$20 \times 100 = \underline{\quad}$$

$$800 \div 16 = \underline{\quad}$$

$$203 + 302 = \underline{\quad}$$

$$415 - 310 = \underline{\quad}$$

$$210 \div 7 = \underline{\quad}$$

$$324 + 177 = \underline{\quad}$$

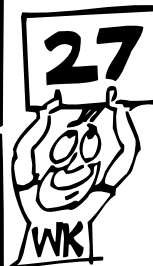
$$423 - 222 = \underline{\quad}$$

THE QUINTUS QUIZ

- HOW MANY DAYS IN NOVEMBER?
- WHAT DAY IS OCTOBER 29th?
- WHAT DATE IS THE FIRST FRIDAY OF OCTOBER?
- WHAT DATE IS THE FOURTH SUNDAY OF NOVEMBER?
- HOW MANY THURSDAYS IN OCTOBER?

OCTOBER						
M	T	W	T	F	S	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER						
M	T	W	T	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

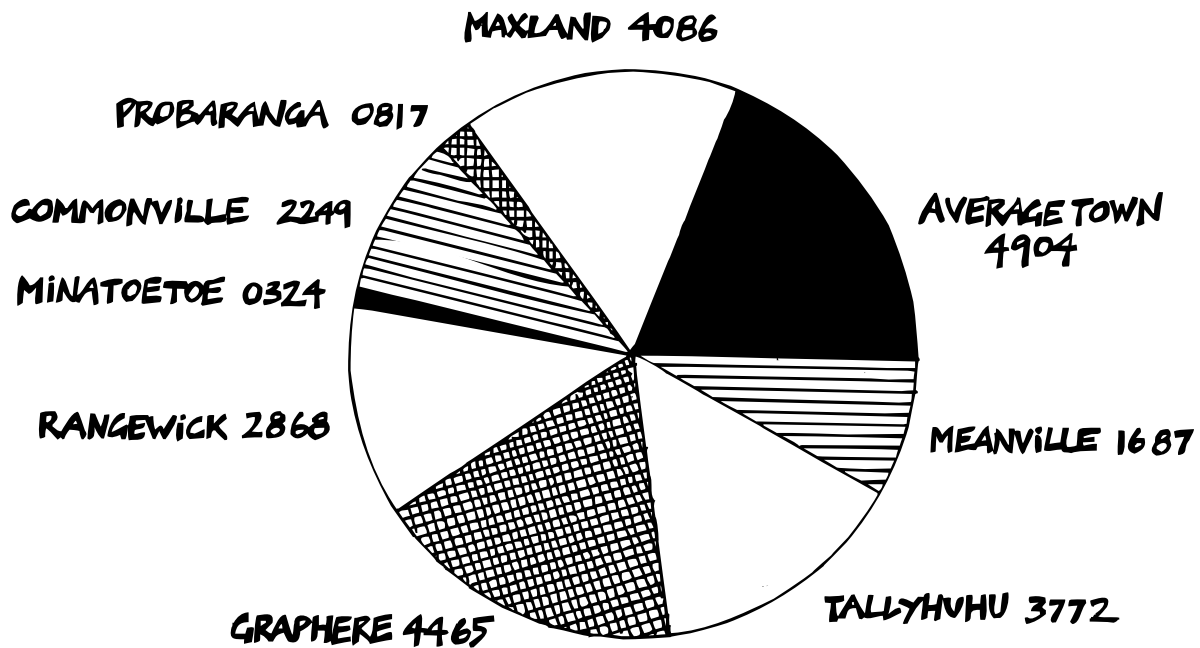


NUMBER OF MISTAKES

"ROUND-UP-TIME!"

12 MAY BE ROUNDED DOWN ≈ 10
 99 MAY BE ROUNDED UP ≈ 100 . GET IT!

-A BREAKDOWN OF CRIME FIGURES IN STATISTIC CITY



SUBURB	NUMBER OF CRIMES		
	TO THE NEAREST 10	TO THE NEAREST 100	TO THE NEAREST 1000
TOTALS			

ADD ALL THE ACTUAL CRIME FIGURES _____
 WHICH APPROXIMATION TOTAL IS CLOSEST TO THIS? _____

... AND CRIMES SOLVED. . .

SUBURB	PERCENTAGE OF CRIMES SOLVED		
	ACTUAL	TO 1 DECIMAL PLACE	TO NEAREST WHOLE NUMBER
MAXLAND	42.61		
AVERAGE TOWN	38.383		
MEANVILLE	41.75		
TALLYHUUHU	34.92		
GRAPHERE	33.166		
RANGEWICK	35.50		
MINATOETOE	37.27		
COMMONVILLE	43.44		
PROBARANGA	39.89		
OVERALL	1.		

- TO FIND THE OVERALL % OF CRIMES SOLVED YOU HAVE TO:

1 ADD THE FIGURES

2 DIVIDE THE TOTAL BY NINE

WRITE YOUR ANSWER IN POSITION 1.



NOW ORDER YOUR LUNCH FROM THE POLICE CANTEEN - ROUND ALL PRICES TO THE NEAREST 5c

70 80 85 85 75 75

- IN -

85 70

90 80 85 85 70



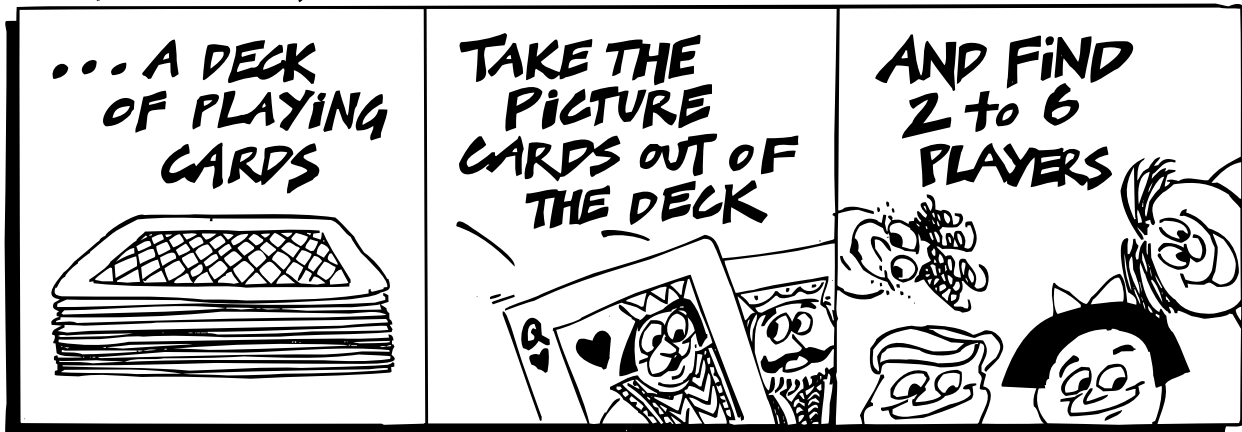
U
M
Y
E
T

POLICE CANTEEN

- SANDWICH - 78c
- PIE 83c -
- CAKE 72c -
- DRINK 74c -
- ROLL 89c -

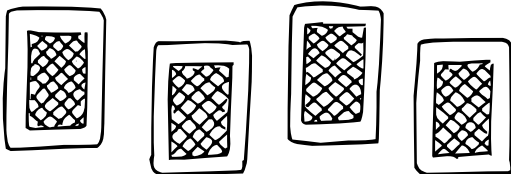
-BIG DEAL!

YOU NEED...

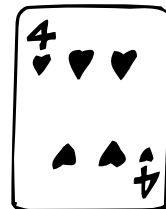


HOW TO PLAY

1. DEAL 4 CARDS TO EACH PLAYER



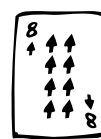
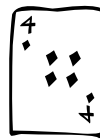
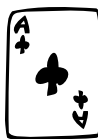
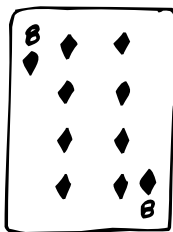
2. THE DEALER THEN PLACES AN EXTRA CARD (THE ANSWER CARD) FACE UP SO ALL CAN SEE IT!



3. EACH PLAYER MUST TRY TO ARRANGE THEIR CARDS TO MAKE THE AMOUNT ON THE ANSWER CARD. YOU CAN +, -, X OR ÷. (ACE = 1)

4. YOU CAN ASK THE DEALER FOR EXTRA CARDS IF NEEDED, BUT YOU MUST USE THEM ALL.

EXAMPLE



$$(5 - 1) \times 4 - 8 = 8$$

FIRST FINISHED - 2 POINTS

SECOND & THIRD FINISHED - 1 POINT

THE WINNER IS THE FIRST ONE TO REACH 12 POINTS



WHIZZ-KIDS WORKSHEET



28

NIFTY NUMBERS

$25 - 21 = \underline{\quad}$

$34 + 35 = \underline{\quad}$

$91 + 12 = \underline{\quad}$

$36 - 29 = \underline{\quad}$

$15 \times 7 = \underline{\quad}$

$8 \times 20 = \underline{\quad}$

$10 \times 32 = \underline{\quad}$

$44 \div 11 = \underline{\quad}$

$64 \div 8 = \underline{\quad}$

$100 \div 25 = \underline{\quad}$

TRENDY TABLES

$12 \times \underline{\quad} = 12$

$12 \times \underline{\quad} = 24$

$12 \times 3 = \underline{\quad}$

$12 \times 4 = \underline{\quad}$

$12 \times 5 = \underline{\quad}$

$12 \times \underline{\quad} = 84$

$12 \times \underline{\quad} = 96$

$12 \times \underline{\quad} = 120$

$12 \times 0 = \underline{\quad}$

$12 \times 11 = \underline{\quad}$

SOFT SUBSTITUTES

$a = 25, a + 8 = \underline{\quad}$

$b = 34, b + 11 = \underline{\quad}$

$c = 46, c + 23 = \underline{\quad}$

$d = 62, 7 + d = \underline{\quad}$

$e = 31, 14 + e = \underline{\quad}$

$r = 48, 17 + r = \underline{\quad}$

$s = 50, 29 + s = \underline{\quad}$

$t = 54, t - 30 = \underline{\quad}$

$u = 20, u - 14 = \underline{\quad}$

$v = 40, 3v = \underline{\quad}$

EXTRA EXAMPLES

$90 \text{ SUBTRACT } 48 \text{ IS } \underline{\quad}$

$84 \text{ DIVIDED BY } 6 \text{ IS } \underline{\quad}$

$\$24 \cdot 20 \times 5 = \underline{\quad}$

$\$36 \cdot 85 \times 20 = \underline{\quad}$

$1234 = 1000 + \underline{\quad} + \underline{\quad} + \underline{\quad}$

$2806 + 708 = \underline{\quad}$

$4091 = \underline{\quad} + 0 + \underline{\quad} + 1$

$3456 + 6543 = \underline{\quad}$

$8765 - 5678 = \underline{\quad}$

$777 + 888 = \underline{\quad}$

THE QUINTUS QUIZ

-FIND THE COST FOR...

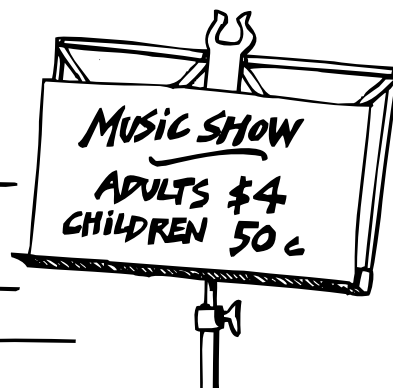
1 ADULT & 1 CHILD $\underline{\quad}$

2 ADULTS & 2 CHILDREN $\underline{\quad}$

4 ADULTS & 1 CHILD $\underline{\quad}$

1 ADULT & 3 CHILDREN $\underline{\quad}$

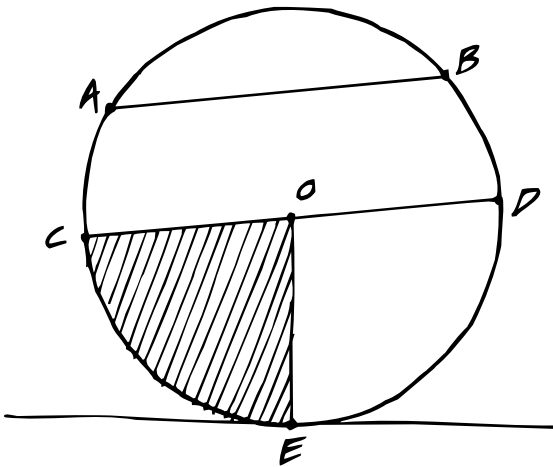
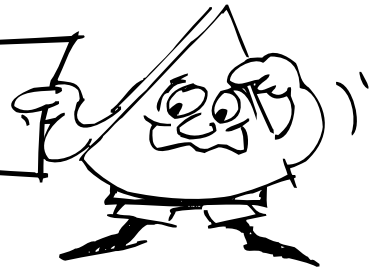
3 ADULTS & 10 CHILDREN $\underline{\quad}$



NUMBER OF MISTAKES $\underline{\quad}$



CIRCLE PARTS!

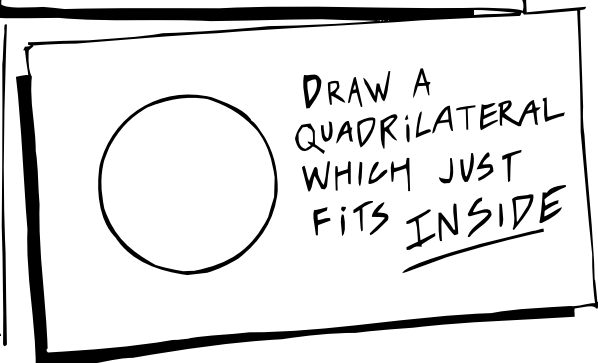
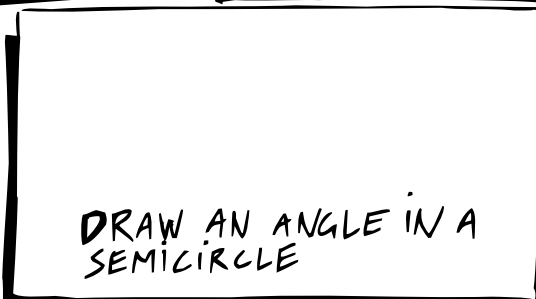
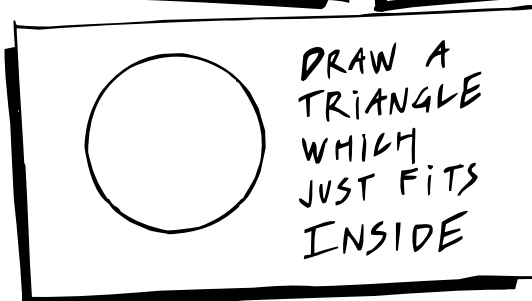
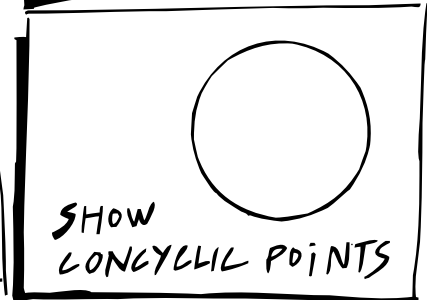
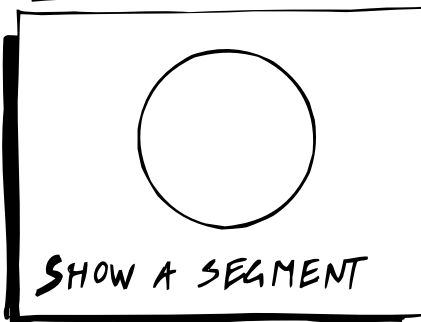
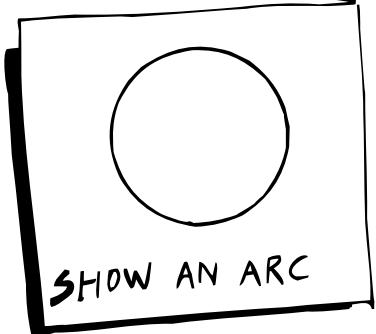
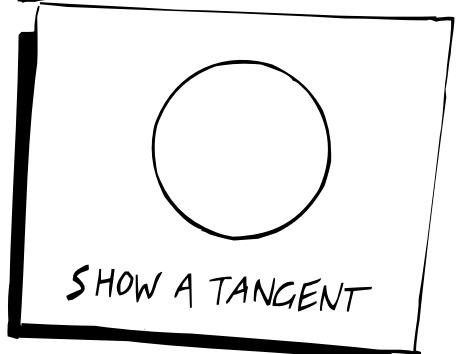
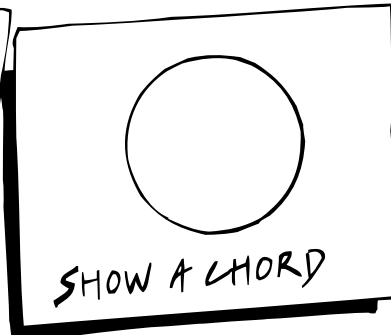
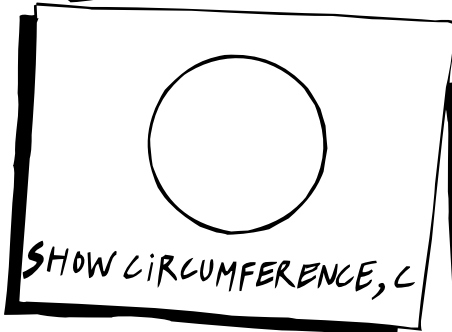
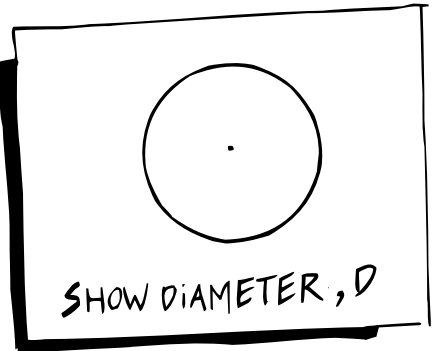
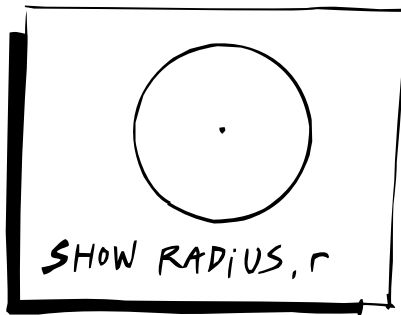
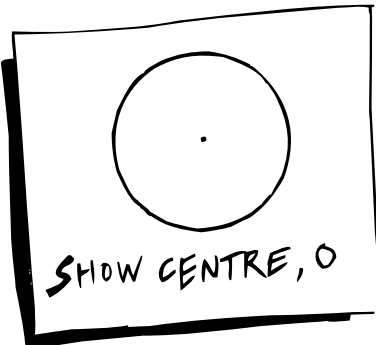


COMPLETE THE STATEMENTS BELOW USING THE CIRCLE DIAGRAM. PUT THE LETTER ABOVE THE CORRECT ANSWER IN THE CODE!

- H A LINE THAT ONLY TOUCHES A CIRCLE AT ONE POINT _____
- L A DIAMETER IS _____ THE RADIUS
- C LINE \overline{AB} IS CALLED A _____
- H THE DISTANCE AROUND A CIRCLE _____
- R IF \overline{OD} IS 20MM, THEN \overline{CD} IS _____
- F A CHORD THAT PASSES THROUGH A CIRCLE'S CENTRE _____
- I POINTS A, B, C, D AND E ARE ALL THE SAME _____ FROM THE CENTRE
- Y HALF A CIRCLE IS A _____
- T THE SHADED AREA \widehat{EOC} IS CALLED A _____
- I PART OF A CIRCLE e.g. THE POINTS BETWEEN A AND B _____

WHAT DO YOU CALL A MILLIONAIRE WHO NEVER WASHES?									
DIAMETER	DISTANCE	TWICE	SECTOR	TANGENT	SEMICIRCLE	40MM	ARC	CHORD	CIRCUMFERENCE

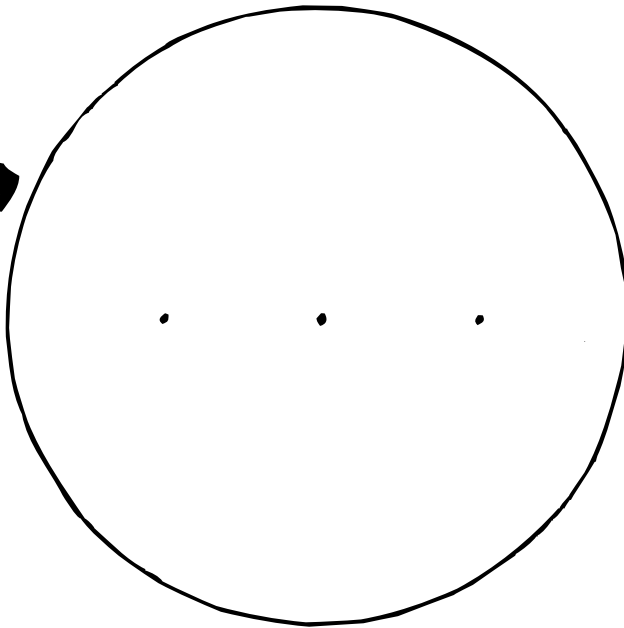
— PARTS-N-CIRCLES —



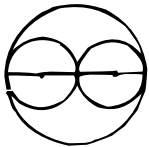


BETTY'S BRILLIANT CIRCLE DESIGNS!

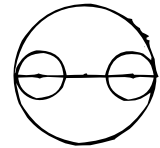
1
FIRST MEASURE
THE DIAMETER
OF THIS CIRCLE
d = _____ mm



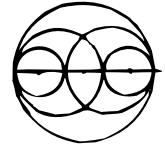
NEXT DRAW
2 CIRCLES
INSIDE USING
 $\frac{1}{2}$ THIS
DIAMETER



2
USING THE
OTHER CIRCLE
DRAW 2 SMALL
CIRCLES
INSIDE.

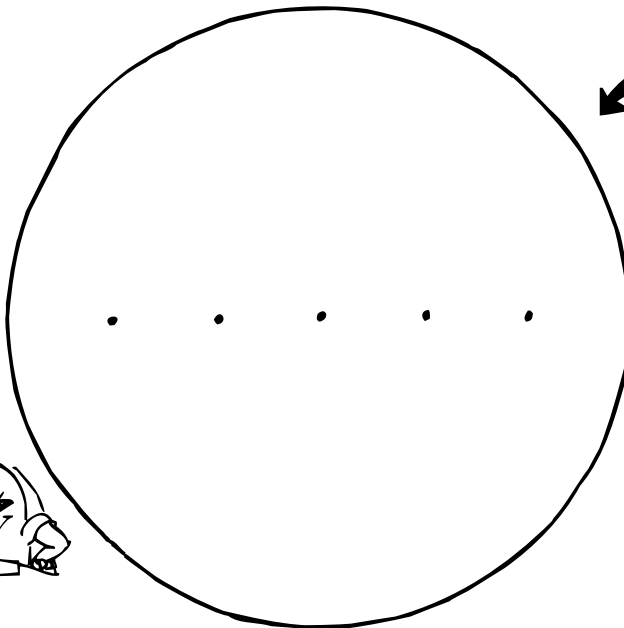


NOW DRAW
2 LARGER
CIRCLES TO
MAKE ...



NOW COLOUR
IN CAREFULLY
TO MAKE ...

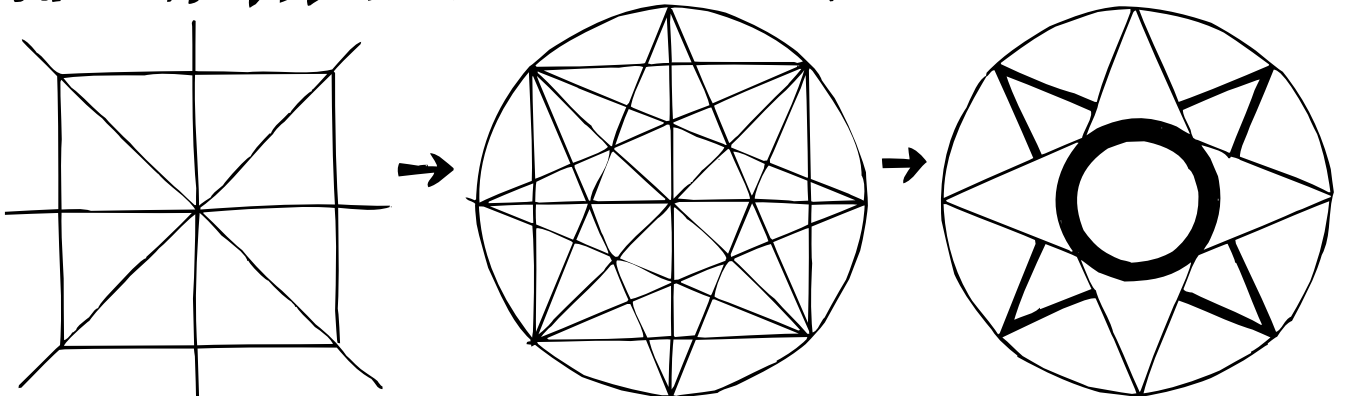
(RUB OUT
ANY EXTRA
LINES!)



NEXT COLOUR
IN TO GET ...



ANOTHER DESIGN YOU MIGHT CONSTRUCT & COLOUR

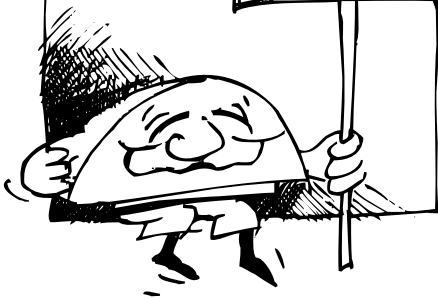


CIRCLE PATTERNS

STEP 1

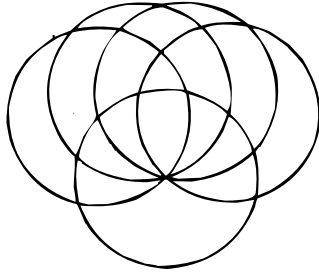
MEASURE THE RADIUS OF THE CIRCLE BELOW
RADIUS = _____ MM

SEE YA ROUND!



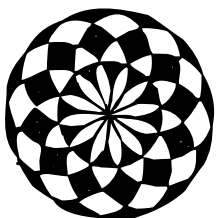
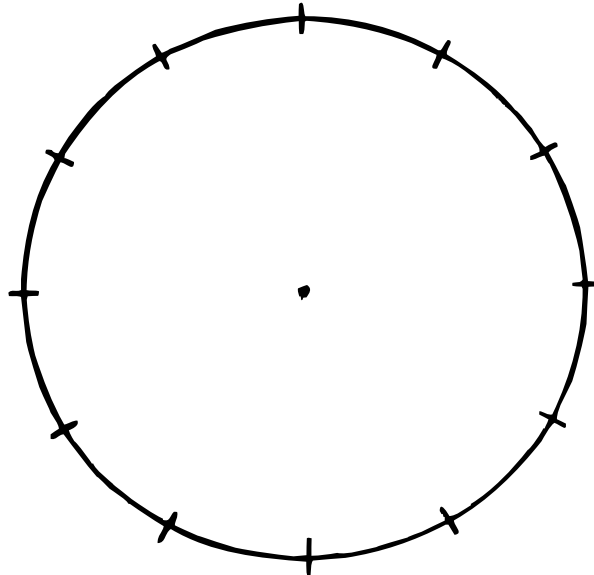
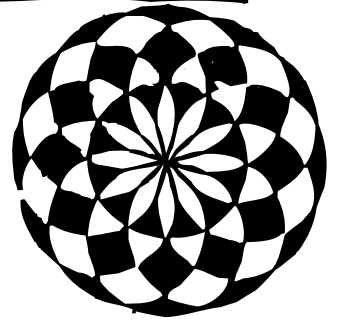
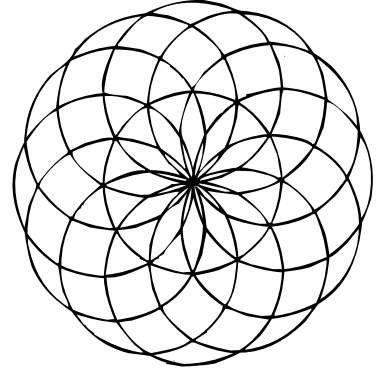
STEP 2

USE THIS RADIUS TO DRAW 12 NEW CIRCLES ON THE POINTS GIVEN



STEP 3

YOU SHOULD NOW HAVE THIS COLOUR YOUR DESIGN!



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$45 - 24 = \underline{\quad}$$

$$37 + 38 = \underline{\quad}$$

$$53 - 46 = \underline{\quad}$$

$$62 + 52 = \underline{\quad}$$

$$30 \times 12 = \underline{\quad}$$

$$42 \times 5 = \underline{\quad}$$

$$36 \div 9 = \underline{\quad}$$

$$55 \div 11 = \underline{\quad}$$

$$27 \times 6 = \underline{\quad}$$

$$68 - 19 = \underline{\quad}$$

FANTASTIC FRACTIONS

$$\frac{1}{3} \text{ OF } 6 = \underline{\quad}$$

$$\frac{1}{3} \text{ OF } 15 = \underline{\quad}$$

$$\frac{1}{4} \text{ OF } 8 = \underline{\quad}$$

$$\frac{1}{4} \text{ OF } 20 = \underline{\quad}$$

$$\frac{1}{4} \text{ OF } 40 = \underline{\quad}$$

$$\frac{1}{6} \times \frac{1}{6} = \underline{\quad}$$

$$\frac{1}{6} + \frac{1}{6} = \underline{\quad}$$

$$\frac{2}{7} \times \frac{6}{11} = \underline{\quad}$$

$$\frac{9}{10} + \frac{10}{5} = \underline{\quad}$$

$$\frac{9}{13} - \frac{5}{3} = \underline{\quad}$$



MIGHTY METRICS

$$310\text{m} + 240\text{m} = \underline{\quad}$$

$$146\text{m} - 58\text{m} = \underline{\quad}$$

$$456\text{g} + 354\text{g} = \underline{\quad}$$

$$231\text{g} - 85\text{g} = \underline{\quad}$$

$$527\text{l} + 386\text{l} = \underline{\quad}$$

$$394\text{l} - 159\text{l} = \underline{\quad}$$

$$6500\text{m} = \underline{\quad}\text{ km}$$

$$\underline{\quad}\text{m} = 6.75\text{ km}$$

$$931\text{ cl} = \underline{\quad}\text{ l}$$

$$\underline{\quad}\text{cl} = 9.6\text{ l}$$

29

EXTRA EXAMPLES

$$\underline{\quad}\text{ DAYS IN JULY}$$

$$12\text{ MONTHS} = \underline{\quad}\text{ YEAR}$$

$$3.3 + 7.7 = \underline{\quad}$$

$$3.6 - 2.8 = \underline{\quad}$$

$$0.6 \times 5 = \underline{\quad}$$

$$2.4 \div 6 = \underline{\quad}$$

$$20, 19, 17, \underline{\quad}, 10$$

$$8080 + 808 = \underline{\quad}$$

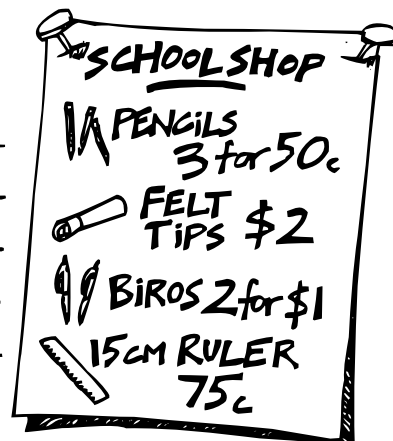
$$456 - 265 = \underline{\quad}$$

$$2^3 = \underline{\quad}$$

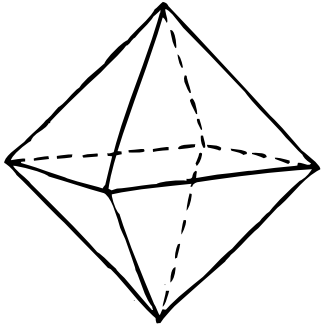
THE QUINTUS QUIZ

FIND THE COST OF...

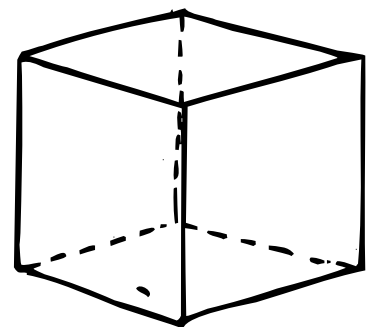
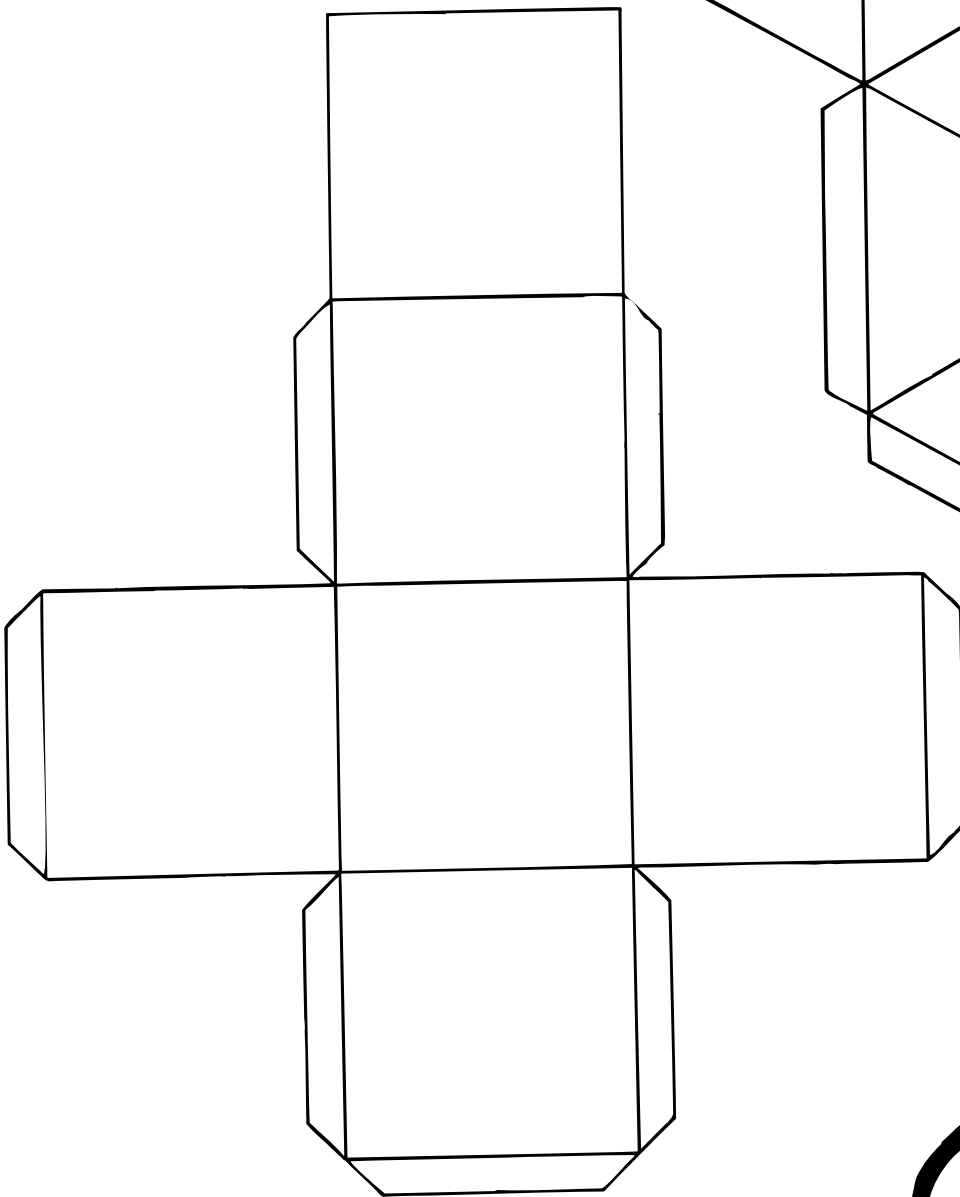
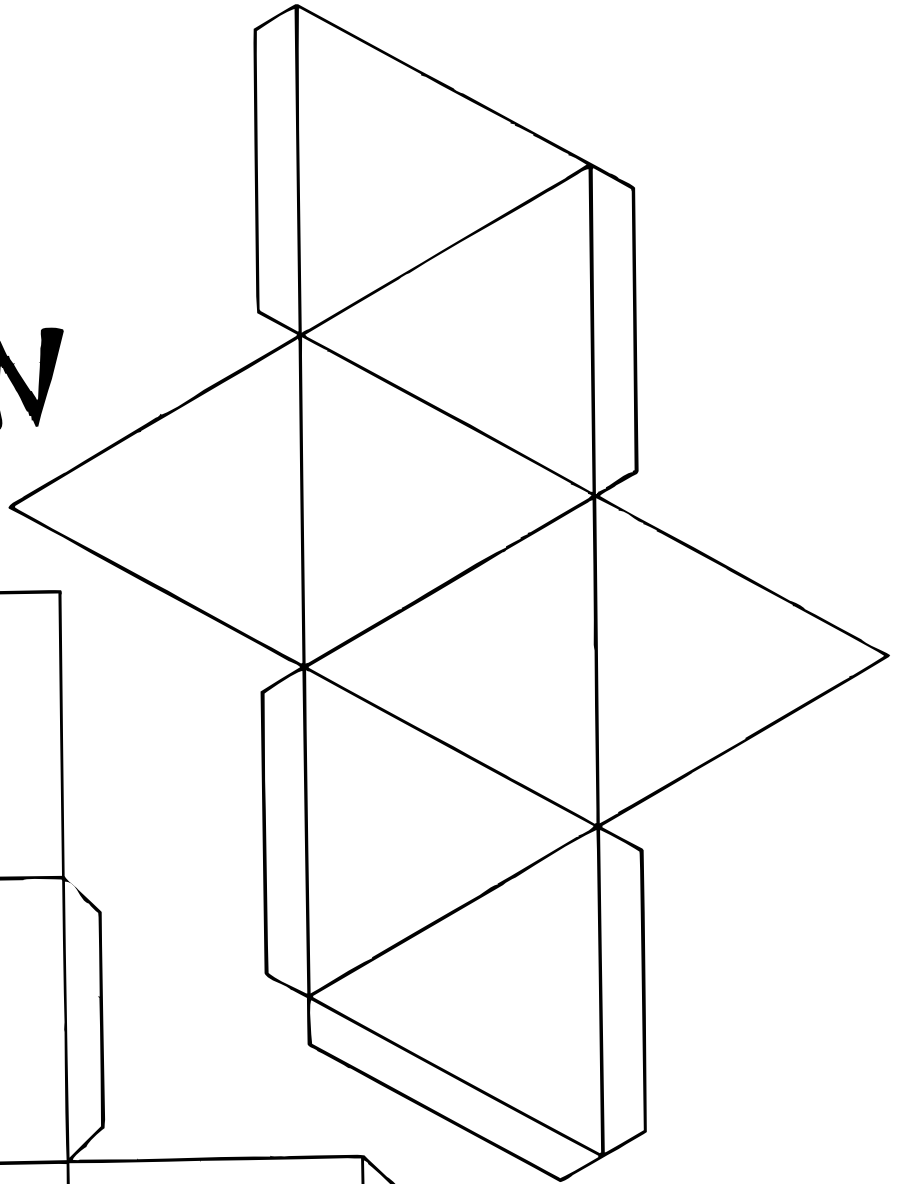
- 100 RULERS _____
- 100 BIROS _____
- 20 FELT TIPS & 30 PENCILS _____
- 50 BIROS & 100 FELT TIPS _____
- 50 RULERS & 300 PENCILS _____



NUMBER OF MISTAKES _____

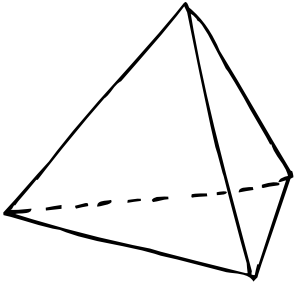


OCTAHEDRON

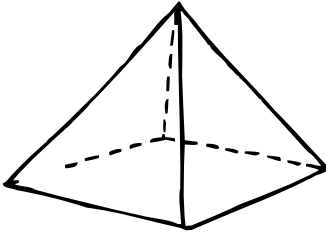
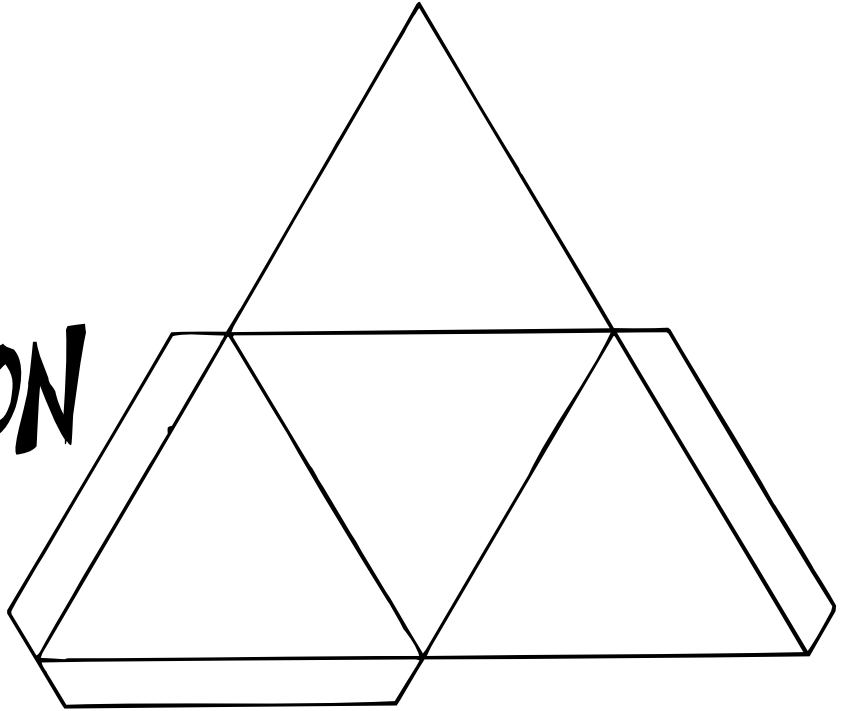


CUBE

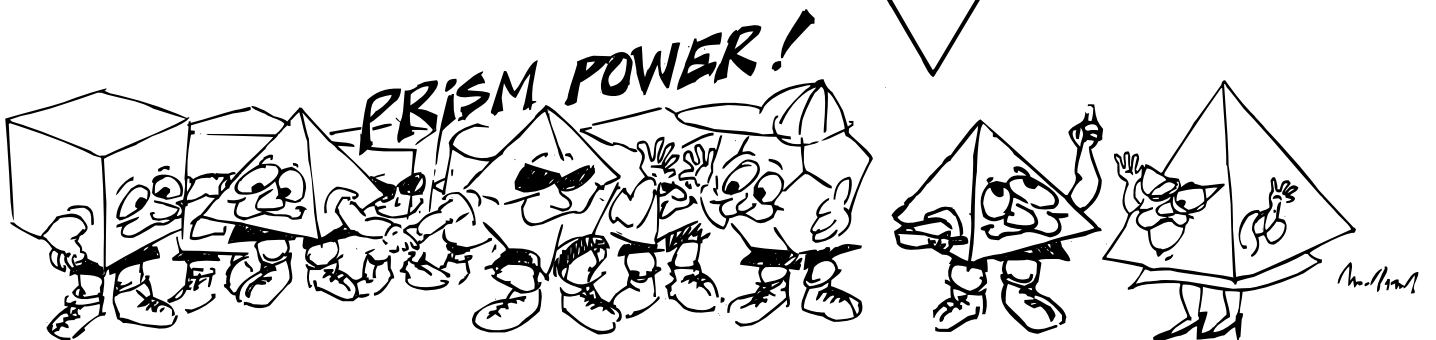
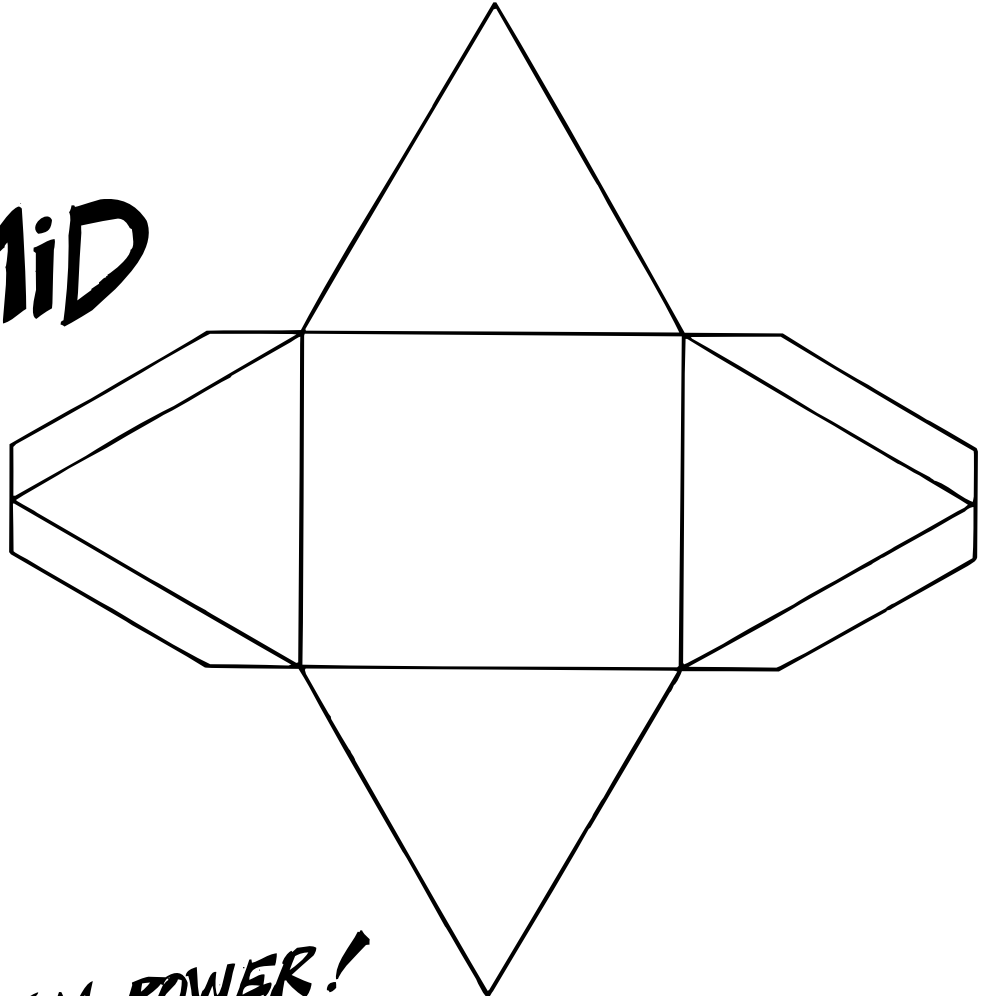
ON THE NEXT FEW PAGES ARE SOME EXAMPLE NETS.
MAKE YOUR OWN ON A PIECE OF CARD.

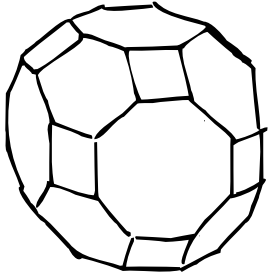


TETRAHEDRON

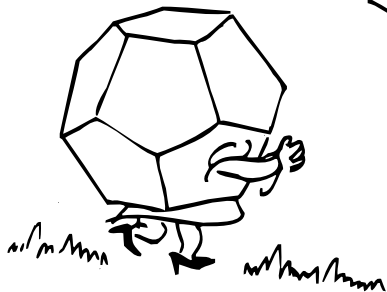
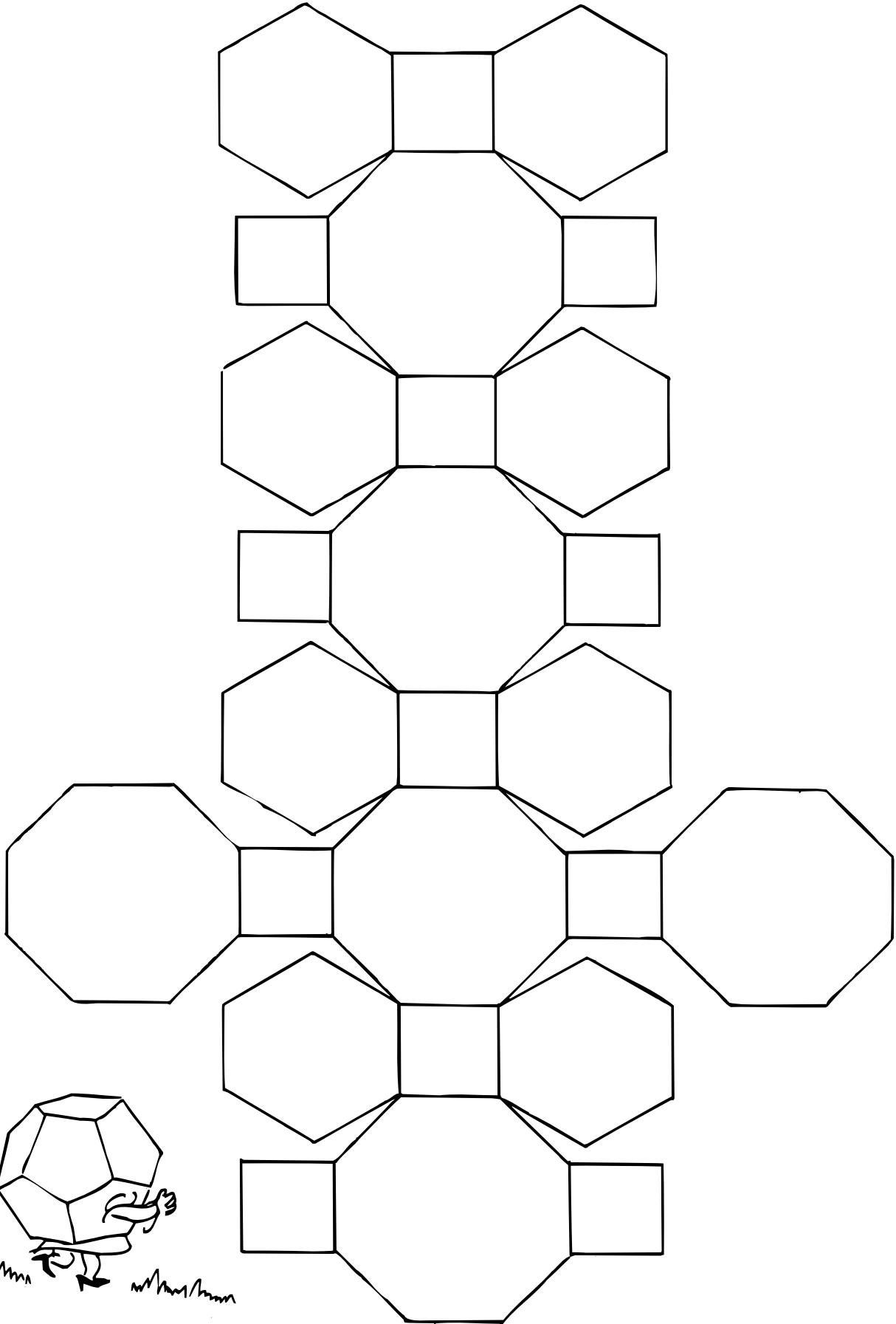


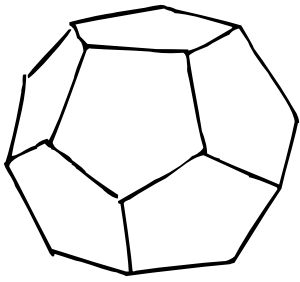
PYRAMID



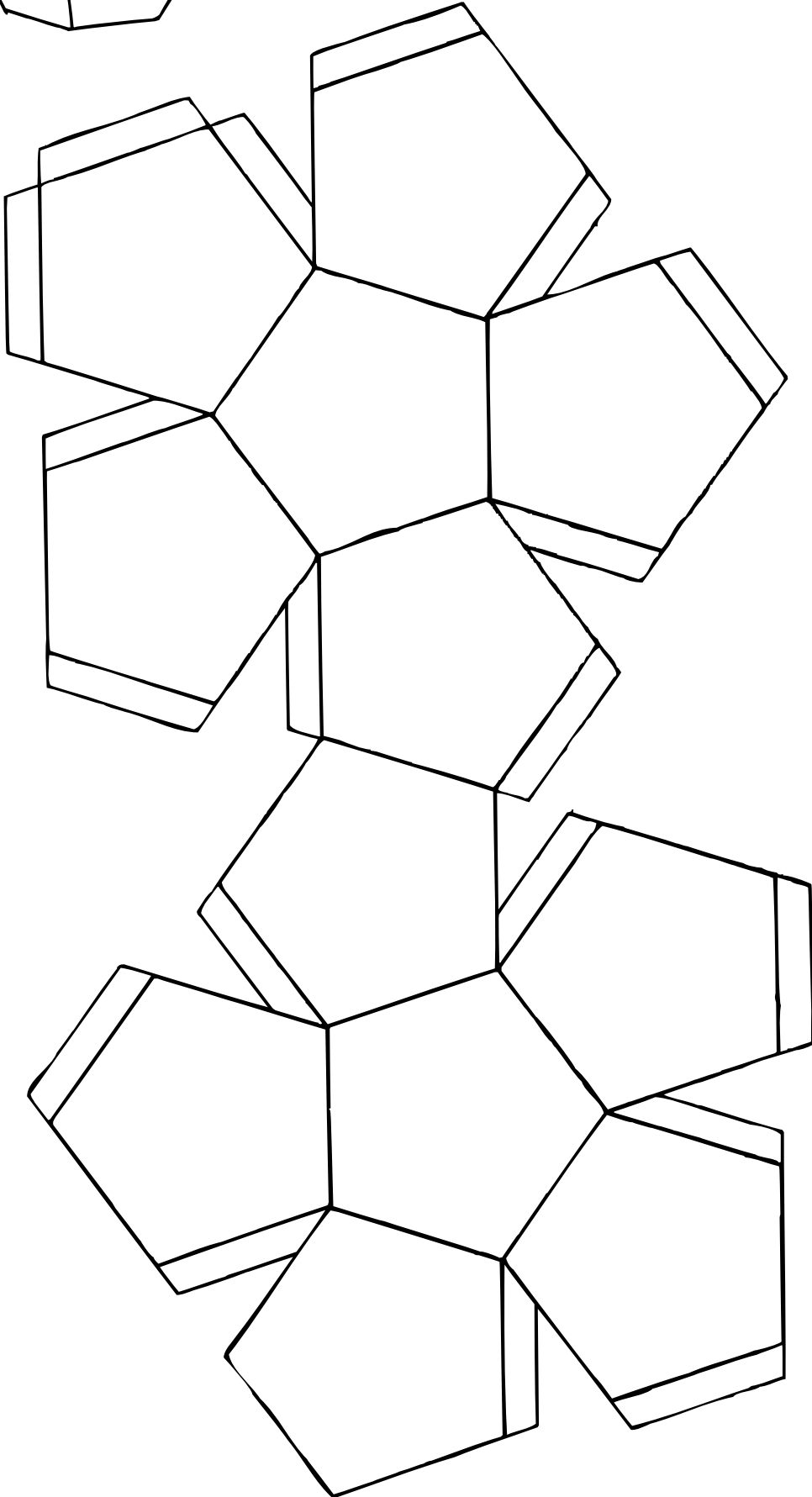


THE GREAT RHOMBI-CUBOCTAHEDRON





DODECAHEDRON



WHIZZ-KIDS WORKSHEET!

NIFTY NUMBERS

$$\begin{array}{ll}
 19-6 = \underline{\quad} & 14 \times 5 = \underline{\quad} \\
 3+19 = \underline{\quad} & 9 \times 9 = \underline{\quad} \\
 20-14 = \underline{\quad} & 15+8 = \underline{\quad} \\
 4 \times 13 = \underline{\quad} & 26 \div 2 = \underline{\quad} \\
 55 \div 5 = \underline{\quad} & 20 \times 5 = \underline{\quad} \\
 104-10 = \underline{\quad} & 106+8 = \underline{\quad} \\
 3 \times 90 = \underline{\quad} & 100 \div 10 = \underline{\quad} \\
 210 \div 7 = \underline{\quad} & 30 \times 5 = \underline{\quad} \\
 28 \div 2 = \underline{\quad} & 20 \times 2 = \underline{\quad} \\
 18+27 = \underline{\quad} & 18+15 = \underline{\quad}
 \end{array}$$

TELLING TABLES

$$\begin{array}{l}
 11 \times 3 = \underline{\quad} \\
 11 \times 7 = \underline{\quad} \\
 11 \times 9 = \underline{\quad} \\
 11 \times 11 = \underline{\quad} \\
 11 \times 5 = \underline{\quad} \\
 11 \times 8 = \underline{\quad} \\
 11 \times 10 = \underline{\quad} \\
 11 \times 12 = \underline{\quad} \\
 11 \times 4 = \underline{\quad} \\
 11 \times 6 = \underline{\quad}
 \end{array}$$



VISCOUS VARIABLES

$$\begin{array}{l}
 y+2y+5y = \underline{\quad} \\
 5c+3c+8c = \underline{\quad} \\
 9d-8d = \underline{\quad} \\
 5p+2p+8p = \underline{\quad} \\
 10e+5e-3e = \underline{\quad} \\
 2f+20f-6f = \underline{\quad} \\
 2g \cdot 5 = \underline{\quad} \\
 3x \cdot 4x = \underline{\quad} \\
 3y \div 3y = \underline{\quad} \\
 8y \div 4 = \underline{\quad}
 \end{array}$$

MIGHTY METRICS

20 MINUTES AFTER 10:55 AM _____

WHAT IS HALFA CIRCLE CALLED _____

DIAMETER = 11cm. RADIUS = _____

100 YEARS = _____ DECADES

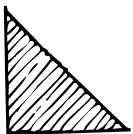
HOW MANY MINUTES BETWEEN 2:35 PM AND 3:20 PM _____

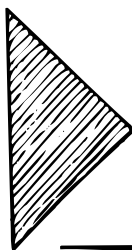
MINUTES IN 4 HOURS _____

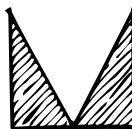
10 LITRES OF PETROL AT \$1.10 PER LITRE COSTS _____

RELATIVE RELATIONS

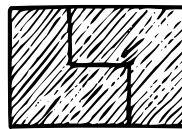
IF  = 12, WHAT IS THE VALUE OF...

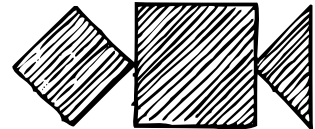






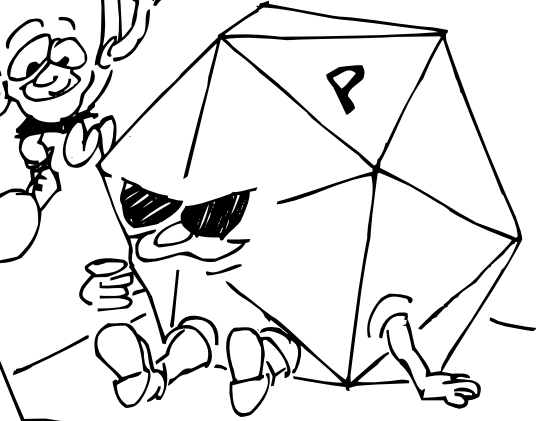
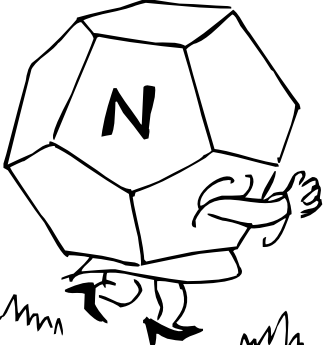




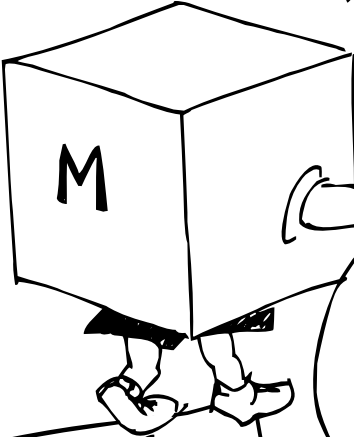


NUMBER OF MISTAKES _____

PARTY TIME



Hand-drawn scribbles



Hand-drawn scribbles



WRITE THE
CORRECT LETTER
ABOVE THE
PRISM IT
REPRESENTS!

Hand-drawn scribbles

ICOSAHEDRON	CONE	CYLINDER	SPHERE	CUBE		ICOSAHEDRON	CYLINDER	PYRAMID	DODECAHEDRON	CYLINDER	PYRAMID
-------------	------	----------	--------	------	--	-------------	----------	---------	--------------	----------	---------