Mighty Math

for 7-9 year olds

Maturing Mathematician

BOOK 2

Sailing On With Mathematics

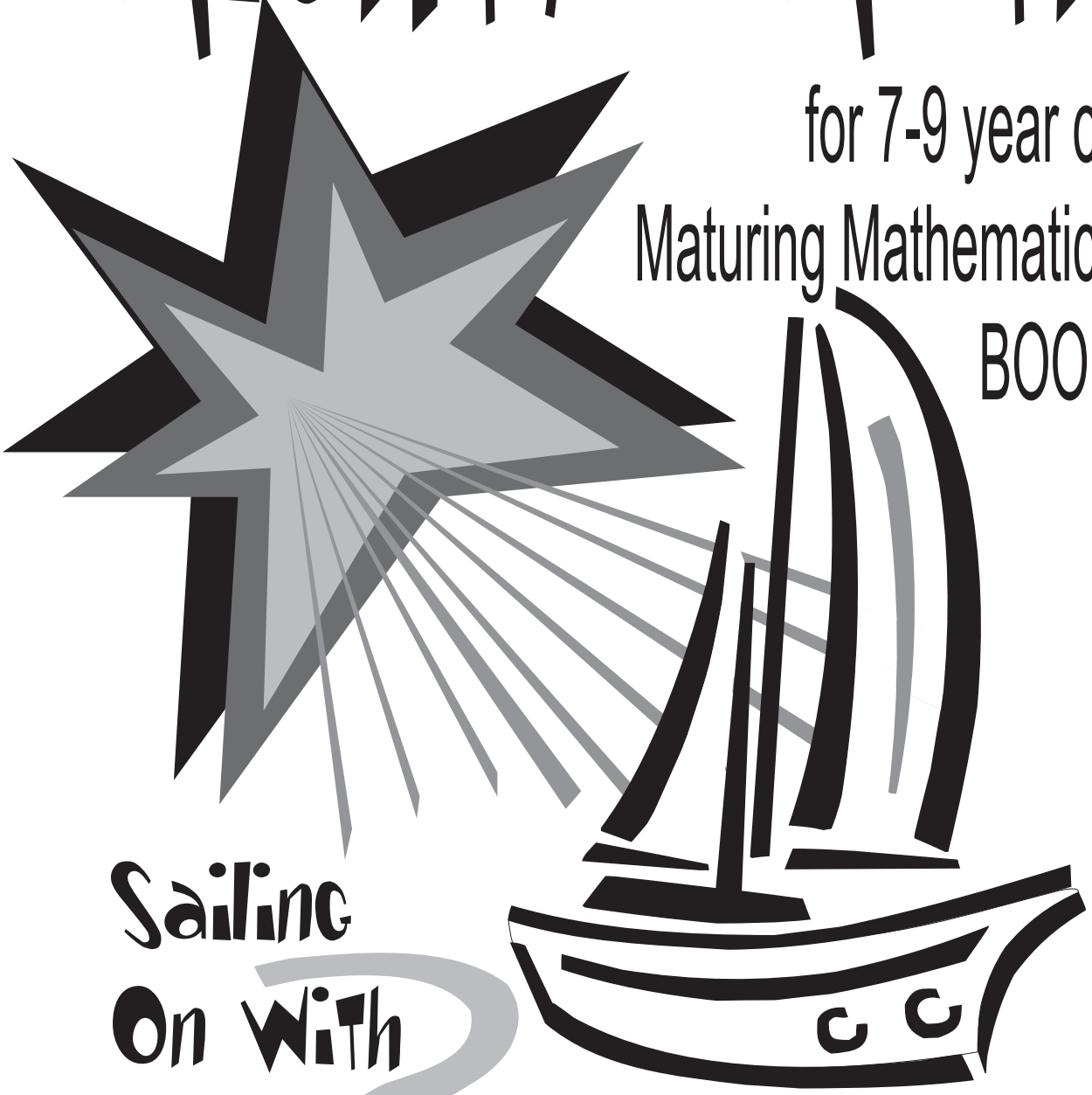
Kim Freeman

Mighty Math

for 7-9 year olds

Maturing Mathematician

BOOK 2



Sailing On With Mathematics

Kim Freeman

Mighty Math Maturing Mathematician Book 2, Sailing On With Mathematics
Author, K. Freeman

eBook Version First Published in 2007 by:
Mahobe Resources (NZ) Ltd
P.O. Box 109-760
Newmarket, Auckland
New Zealand.

www.mahobe.com

ISBN10: 1877216887
ISBN13: 9781877216886

HOW CAN YOU HELP YOUR CHILD IN MATHEMATICS?

Mastering mathematics is essential for future opportunities in school and careers. Your children need to reach a certain level of competency in mathematics to be able to progress in many advanced high-school courses, and then to have a wider variety of career choices. Doing mathematics homework reinforces all the skills being learnt in class. The more time children spend practising their skills, the sooner they will develop confidence in their abilities. However don't just give this book to your children and expect them to learn by themselves. Any activity is fun when done with others or when there is reinforcement and encouragement. Praise and attention to what they are doing will help towards getting them to sit down to learn next time.

This green Mighty Maths series, Maturing Mathematician, reinforces and continues on with the work covered in the previous Mighty Maths series (Beginning Mathematician, Developing Mathematician and Advancing Mathematician). The work is progressively more challenging and new concepts are introduced in each book at various points. To help reinforce mathematical skills as well as to maintain motivation, the same type of question is asked in different ways and contexts.

This specific book covers number sequences, numbers greater than 100, arithmetic strategies, adding and subtracting with carrying, measurement and fractions.

For best results:

- Make sure your children understand the different concepts. Mathematics is not just a meaningless mental exercise of memorizing rules and doing rote drills. Making mathematics part of their daily lives will make it more meaningful. For example, ask them to space new plants a certain distance apart in the garden, double a recipe or pay bills in stores.

- Help them to master the basic facts and learn the vocabulary of mathematics. By now, your children should be competent in the multiplication tables, and simple arithmetic. Having these basic skills and being able to understand the vocabulary means that they can move up to a higher level of learning. If they have not mastered these, use flash cards and drills to help them learn.

- Encourage your children to write neatly. Many errors in solving mathematics problems can be traced back to sloppy number writing.

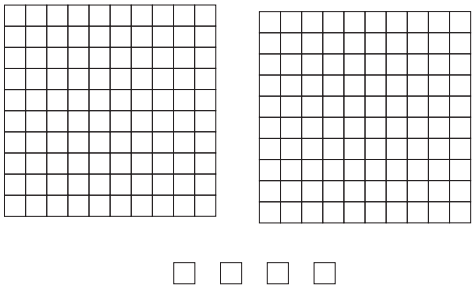
- Provide help immediately when needed. Mathematics is a subject in which everything builds upon what has been previously learned. For example, a failure to understand fractions and decimals will lead to problems with percentages.

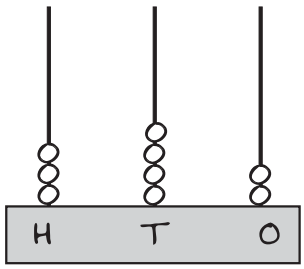
We hope that you and your children have fun with Mighty Maths. At Mahobe, we certainly had fun putting it all together for you.

What is found in this book?

In this book you look at:

Numbers greater than 100





342

three hundred and forty two

□ □ □ □

2 0 4 two hundred and four

2 group of 100 units

4 single units

zero groups of 10 units

Adding and subtracting

$$\begin{array}{r} 74 \\ +\ 69 \\ \hline 143 \end{array}$$

4 + 9 = 13
(1 ten, 3 ones)

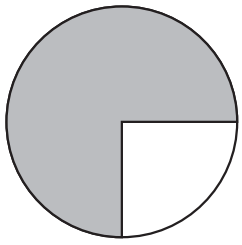
7 + 6 + 1 = 14(tens)

$$\begin{array}{r} 6\,12 \\ -\ 1\,47 \\ \hline 15 \end{array}$$

12 − 7 = 5

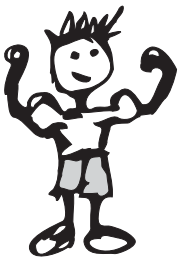
6 − 5 = 1

Fractions



POSITION

Label with the correct terms.



heavier lighter

....

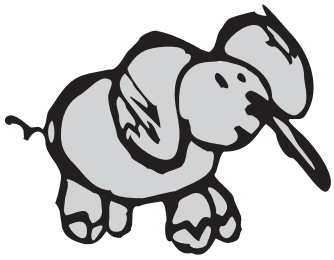
empty full

....

tall short

....

large small



....

fast slow

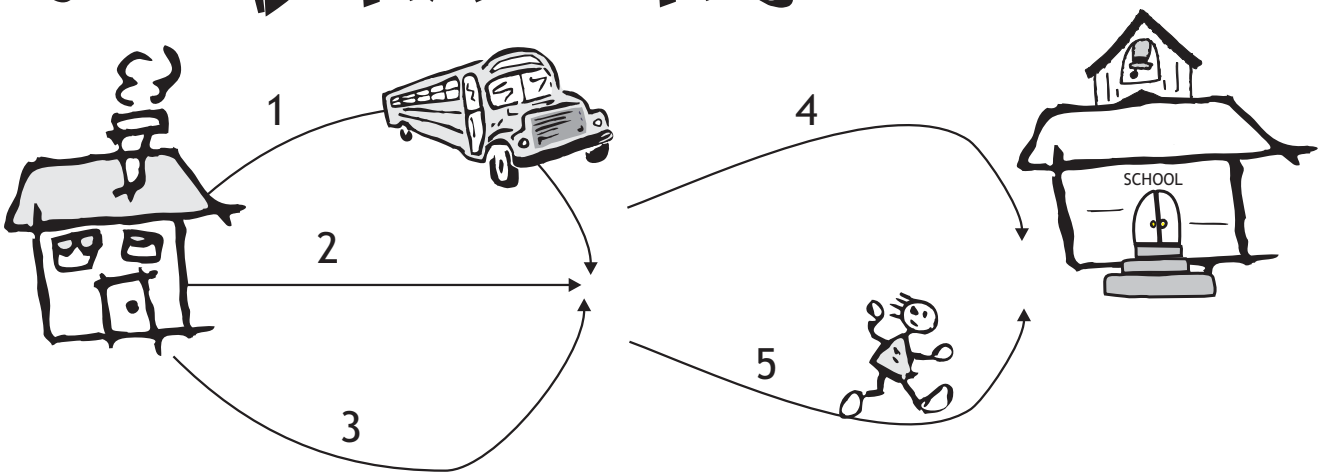
....

.....

on above beside

.....

COMBINATIONS



There are 5 roads that lead to school. List all the different combinations of routes that can be taken.

1, 4 ....

....

List the ways in which you can hang the photos

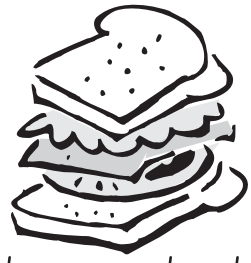
Celine Ryan Robbie .....

....

....

MORE COMBINATIONS

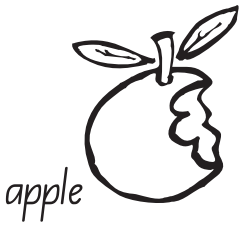
Choose 1 sandwich and 1 kind of fruit.
List the different combinations.



ham sandwich

salad sandwich

banana



apple

orange

.....

.....

.....

.....

.....

.....

Three numbers are purchased for the mail box. What are the different three digit numbers that can be produced from 2, 5 and 8?

.....

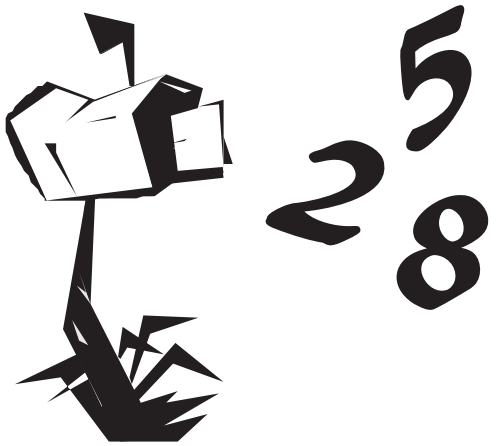
.....

.....

.....

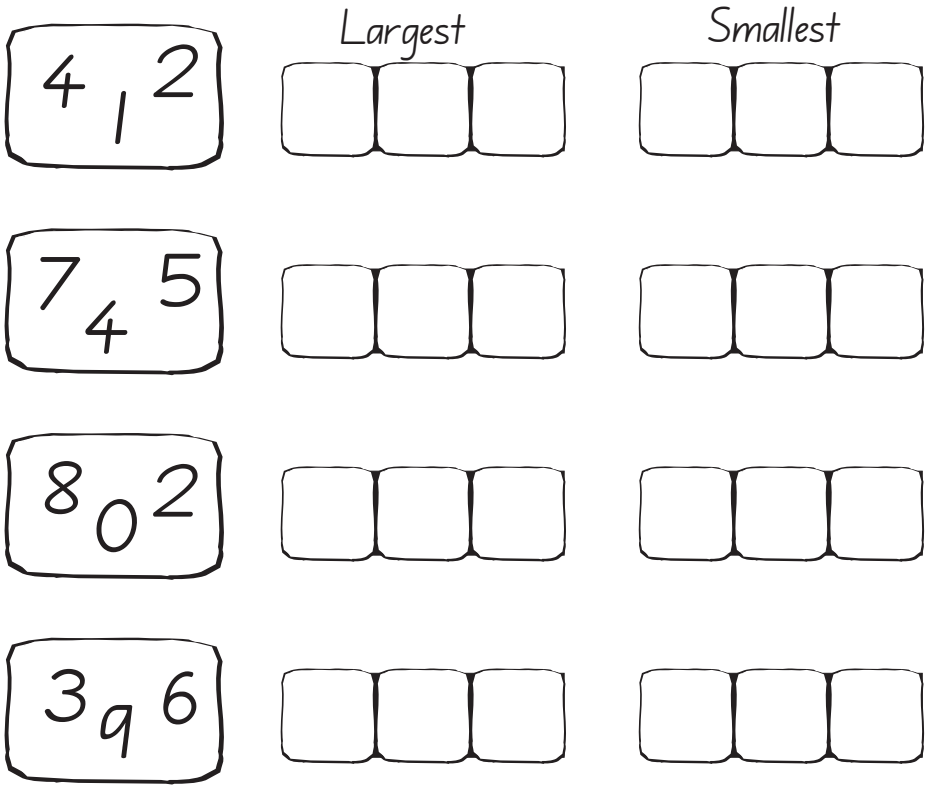
.....

.....



NUMBER SERIES

Write the largest and smallest numbers that can be formed from these digits. (Repetition of digits is not allowed.)



Complete each number series below.

705, ..., 703, ..., 701, ..., ...

210, 212, ..., ..., 218, ..., ...

....., ..., ..., 450, 455, 460, ...

880, ..., 860, ..., ..., ..., ...

NUMBER SERIES

Arrange these numbers in ascending order.

Ascending order means smallest to biggest.

246 ☐ ☐ ☐ ☐ ☐

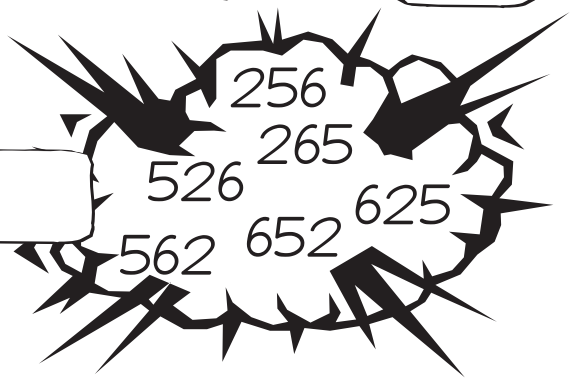
105 ☐ ☐ ☐ ☐ ☐

Arrange these numbers in descending order.

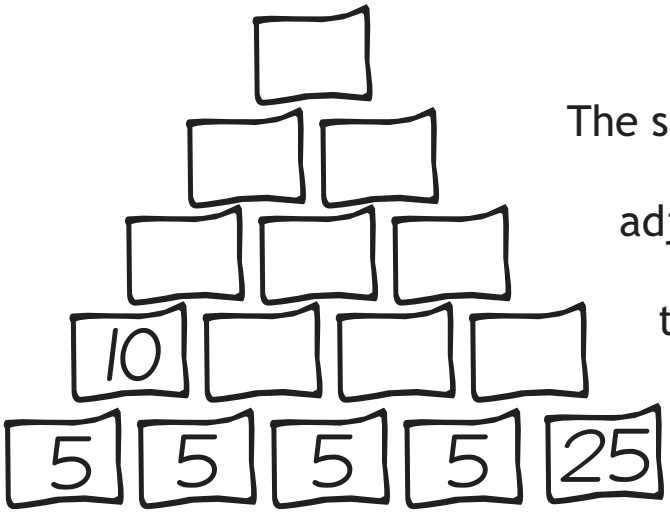
Descending order means biggest to smallest.

875 ☐ ☐ ☐ ☐ ☐

652 ☐ ☐ ☐ ☐ ☐



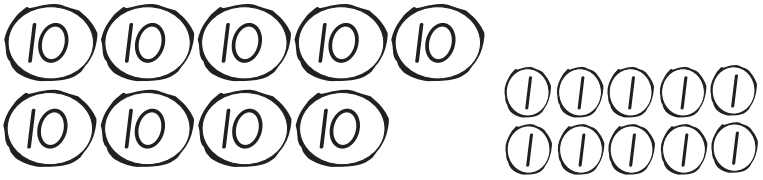
Complete the calculations.



The sum of any two adjacent numbers is the number directly above.

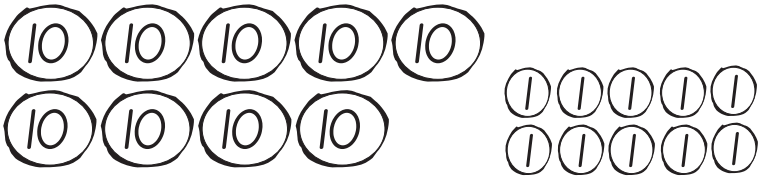
ADDITION

Shade the circles that represent the number 57 then give the answer.



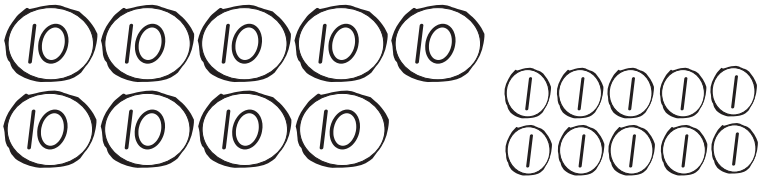
57+..... = 100

Shade the circles that represent the number 73 then give the answer.



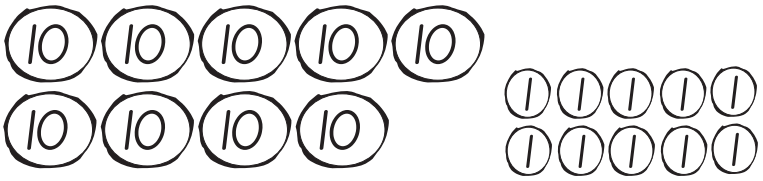
73+..... = 100

Shade the circles that represent the number 68 then give the answer.



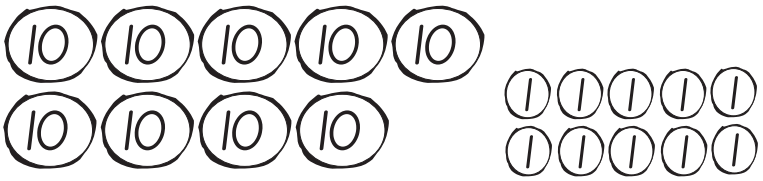
68+..... = 100

Shade the circles that represent the number 34 then give the answer.



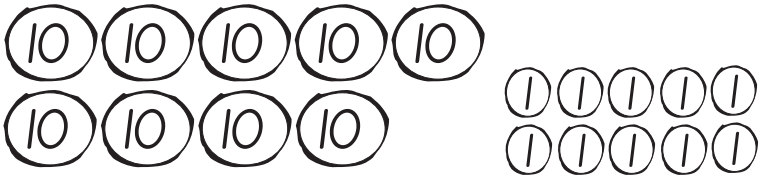
34+..... = 100

Shade the circles that represent the number 29 then give the answer.



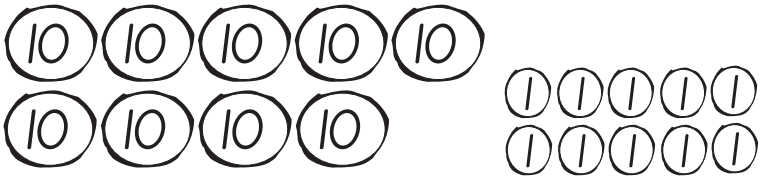
29+..... = 100

Shade the circles that represent the number 45 then give the answer.



45+..... = 100

Shade the circles that represent the number 50 then give the answer.



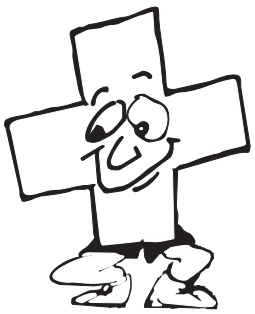
50+..... = 100

Complete these sums.

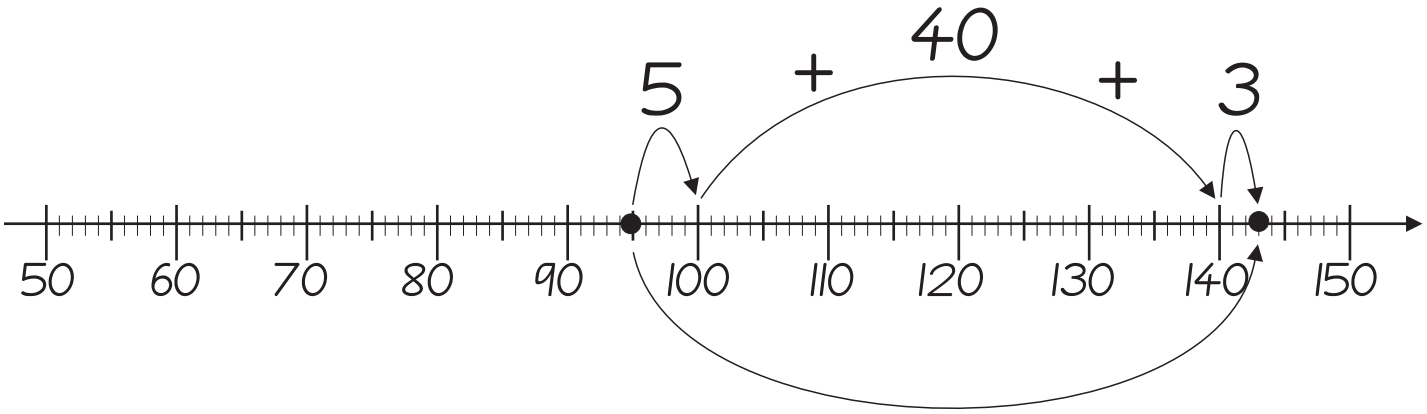
40 + ... = 100	32 + ... = 100
30 + ... = 100	85 + ... = 100
50 + ... = 100	3 + ... = 100
70 + ... = 100	7 + ... = 100
1 + ... = 100	4 + ... = 100
2 + ... = 100	23 + ... = 100
5 + ... = 100	67 + ... = 100
51 + ... = 100	54 + ... = 100

ARITHMETIC STRATEGIES

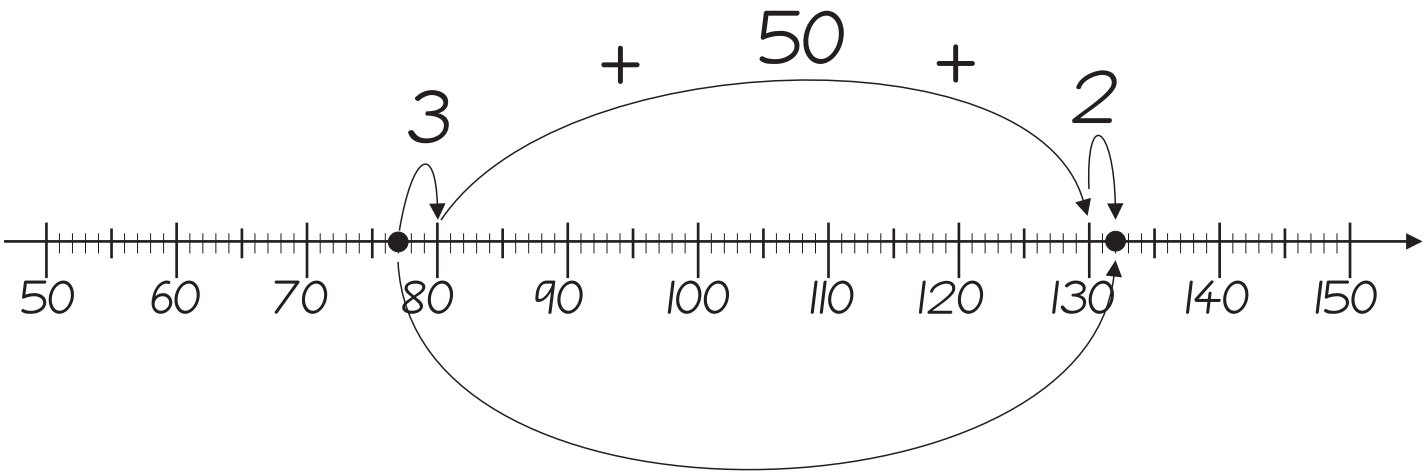
Look at how this strategy uses the number line.



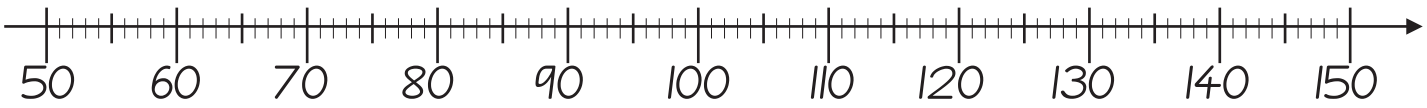
95 + 48 = 143



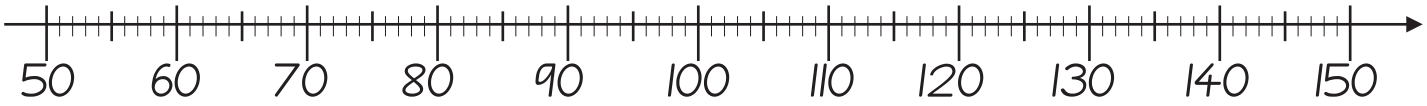
77 + 55 = 132



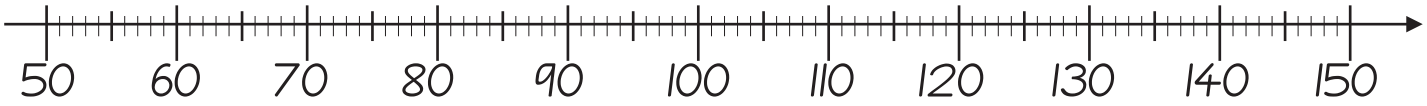
Use the number lines to calculate these additions.



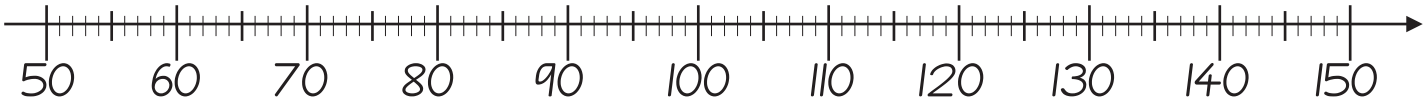
55 + 58 = ...



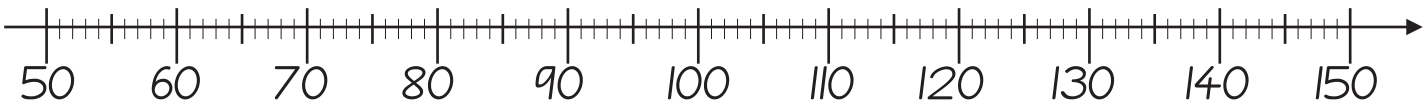
96 + 39 = ...



78 + 66 = ...



66 + 56 = ...

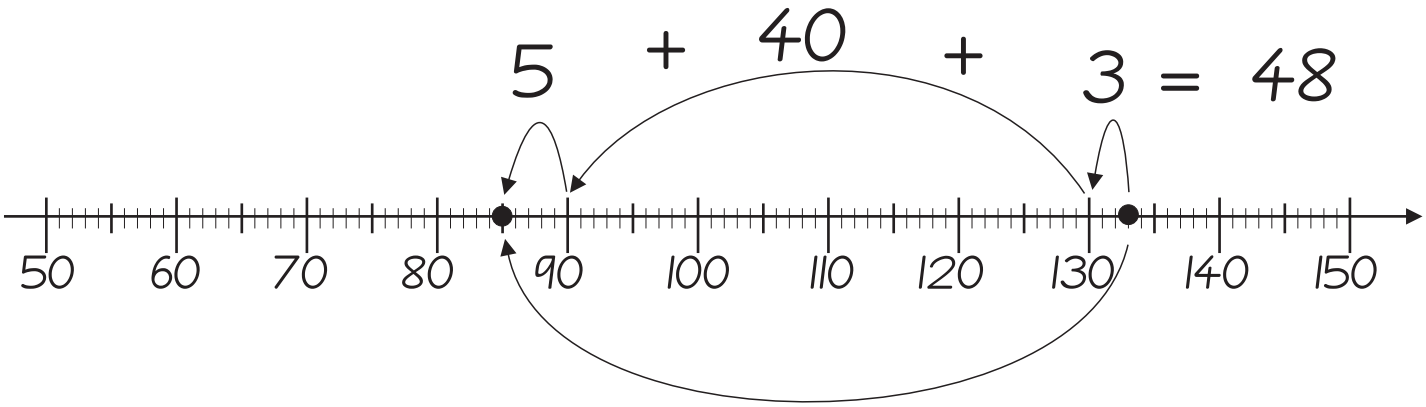


87 + 44 = ...

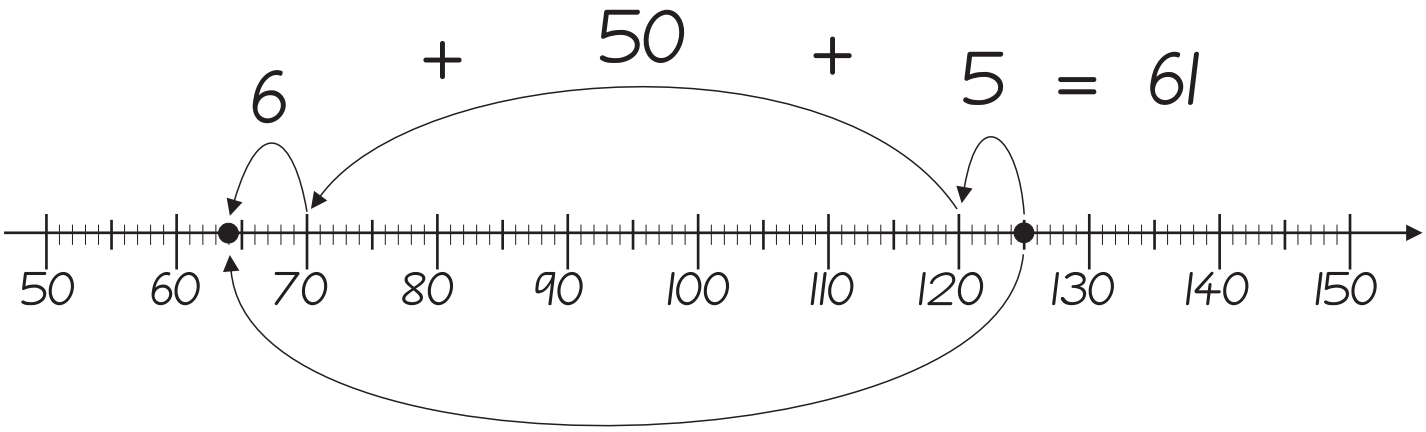
ARITHMETIC STRATEGIES

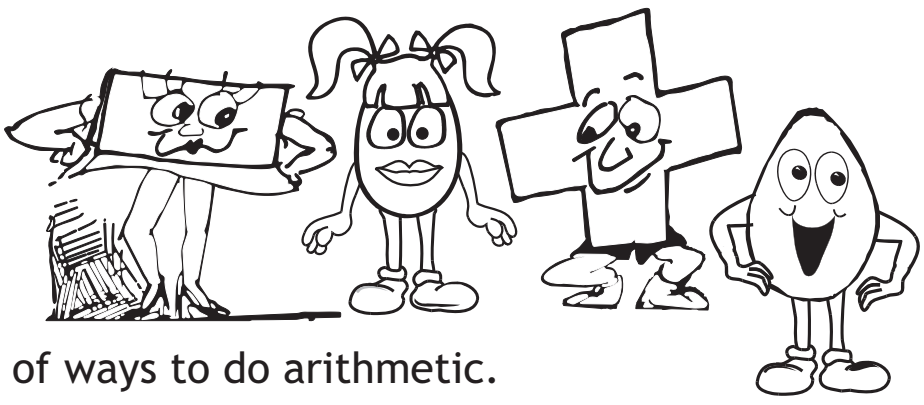
Look at how this strategy uses the number line.

133 − 48 = 85



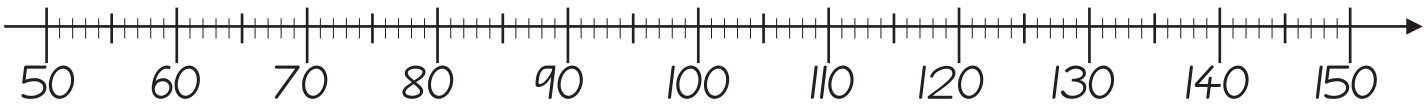
125 − 61 = 64



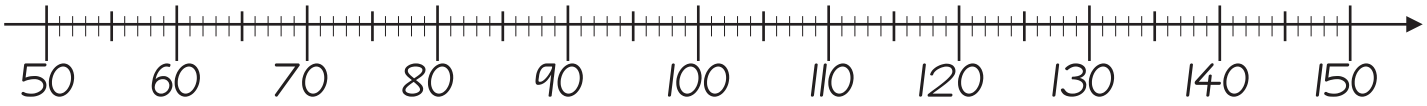


There are all sorts of ways to do arithmetic.

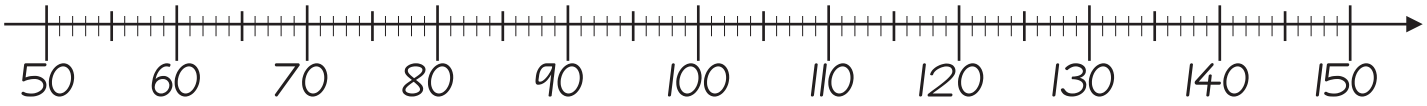
Use the number lines to calculate these subtractions.



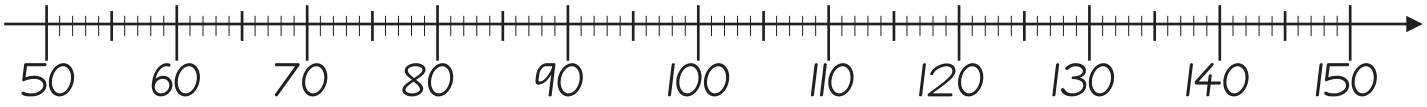
145 – 56 = ...



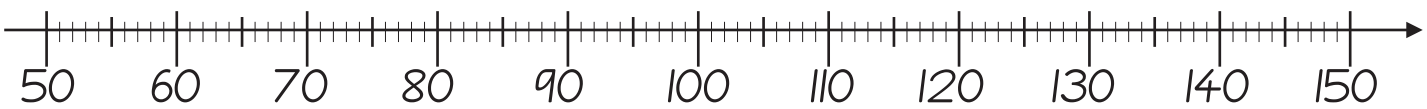
108 – 41 = ...



126 – 68 = ...



149 – 55 = ...



132 – 67 = ...

PLACE VALUE

The value of the digit 8 in the number 483 is .....

The value of the digit 2 in the number 852 is .....

The value of the digit 5 in the number 591 is .....

The value of the digit 0 in the number 307 is .....

The value of the digit 7 in the number 740 is .....

Write these numbers in the correct order.

.....

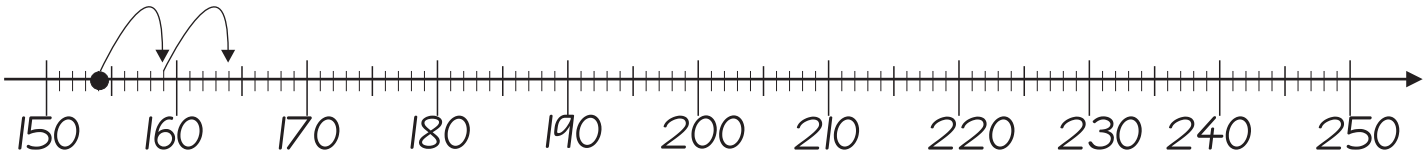
.....

.....

MIGHTY MATHS

249 + 1 =.....	389 + 1 =.....
299 + 1 =.....	546 + 10 =.....
329 + 10 =.....	161 + 10 =.....
150 − 3 =.....	214 − 10 =.....
581 − ..... =579	..... − 2 =129
578 − ..... =568	..... − 10 =236

Start at the dot and continue to add 5 to each number

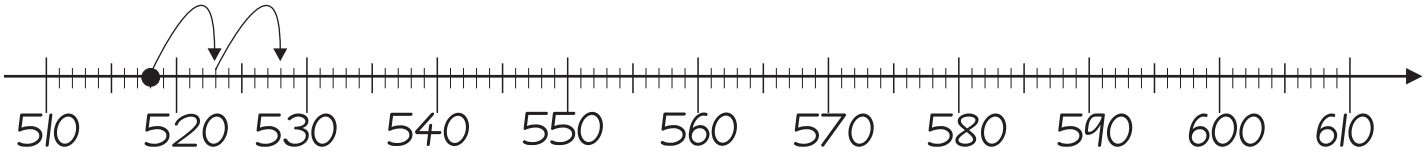


154, 159, ...

.....

277, 282 .....

.....

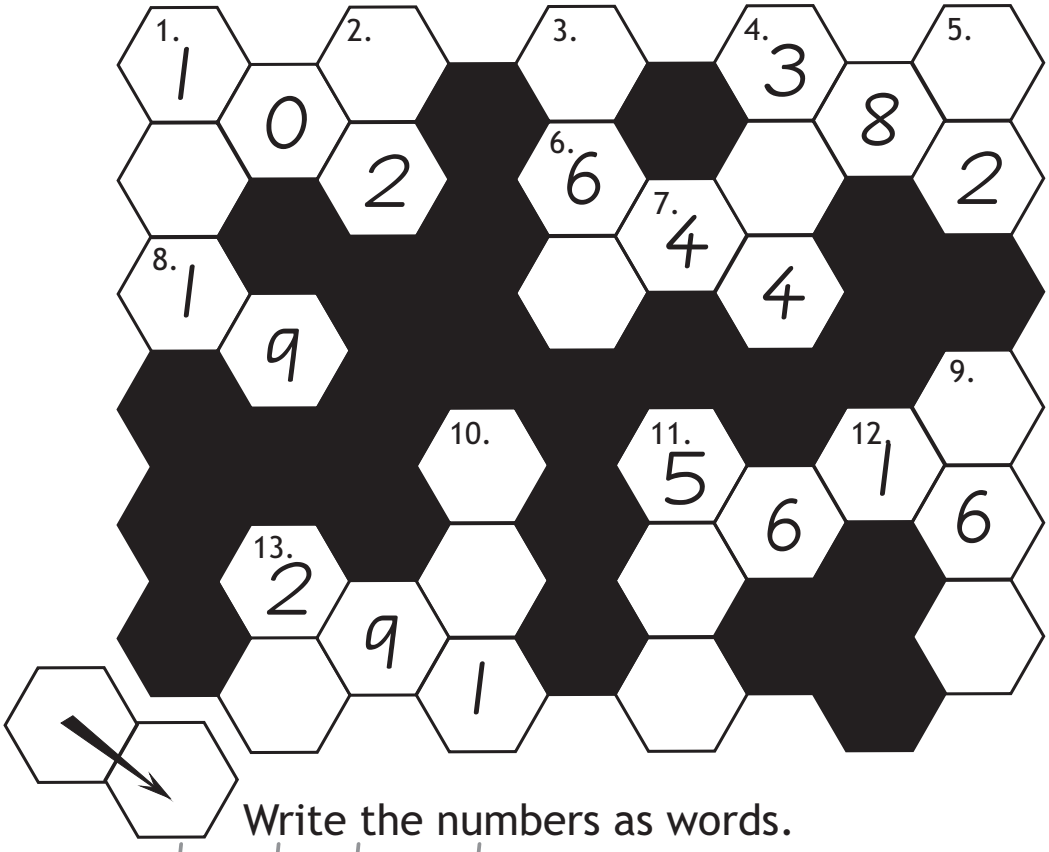


518, 523 .....

.....

Write these numbers into the hexanumber.

1. one hundred and eleven
2. twelve
3. four hundred and sixty seven
4. three hundred and twenty four
5. thirty two
9. nine hundred and sixty six
10. three hundred and one
11. five hundred and seven
13. twenty two



Write the numbers as words.

1. one hundred and two
4. .....
6. .....
8. .....
11. .....
12. .....
13. .....

SEQUENCES

Increase / decrease by 1 to finish each sequence.

315, ..., 317, ..., ..., ..., 321, 322, ..., ...

567, ..., ..., ..., 571, 572, ..., ..., ..., ...

....., 720, 719, 718, ..., ..., ..., ..., ..., 712

902, 901, ..., ..., ..., ..., ..., ..., ..., 893

Increase / decrease by 2 to finish each sequence.

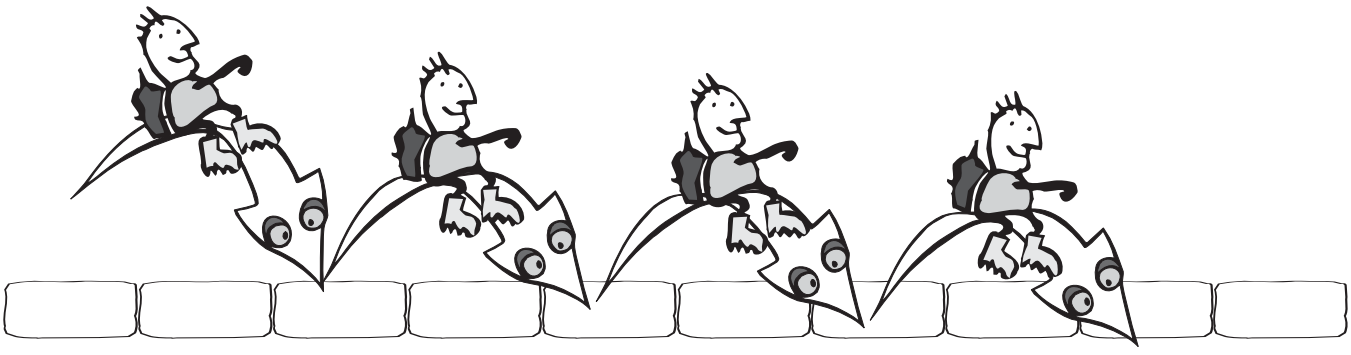
210, 212, ..., ..., ..., ..., ..., ..., ..., ...

832, 834, ..., ..., ..., ..., ..., ..., ..., ...

500, ..., ..., ..., ..., 510, ..., ..., ..., ...

720, 718, 716, ..., ..., ..., ..., ..., ..., ..., ...

680, 678, 676, ..., ..., ..., ..., ..., ..., ..., ...



SEQUENCES

Increase / decrease by 5 to finish each sequence.

125, 130, ..., ..., ..., ..., ..., ..., ..., ...

650, 655, ..., 665, ..., ..., 680, ..., ..., ...

104, 109, 114, 119, 124, ..., ..., ..., ..., ...

320, ..., ..., 305, 300, 295, ..., ..., ..., ...

....., ..., ..., ..., ..., 180, 175, 170, 165, 160

Increase / decrease by 10 to finish each sequence.

211, 221, ..., 241, ..., 261, ..., 281, ..., ...

555, 565, ..., ..., 595, ..., ..., 625, ..., ...

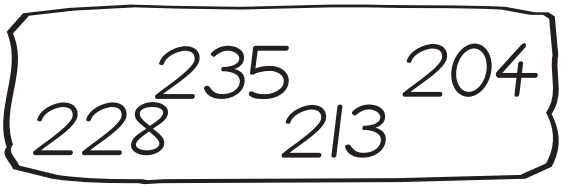
707, 717, ..., ..., 747, ..., ..., 777, ..., ...

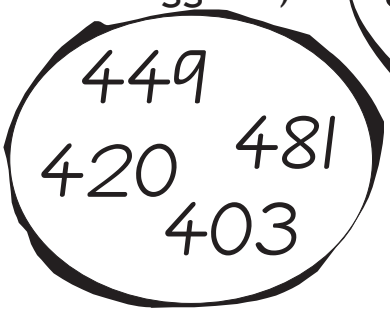
990, 980, 970, ..., ..., ..., ..., ..., ..., 900

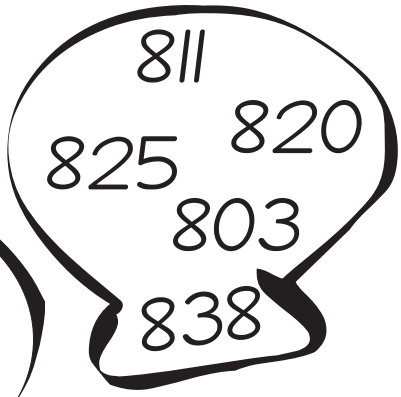
455, 445, 435, ..., ..., ..., 395, 385, ..., ...

SEQUENCES

Write the numbers in ascending order.
(Ascending order means smallest to biggest.)







.....

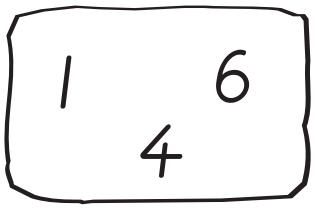
....

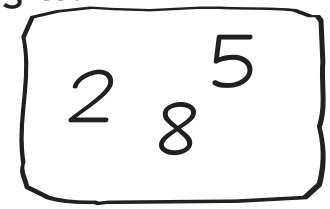
....

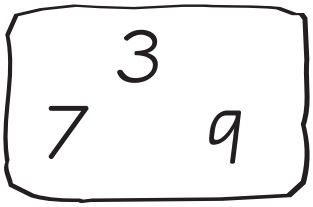
....

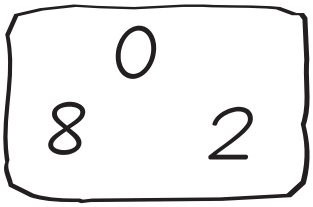
....

Write the largest and smallest numbers that can be formed from each of these digits.









....

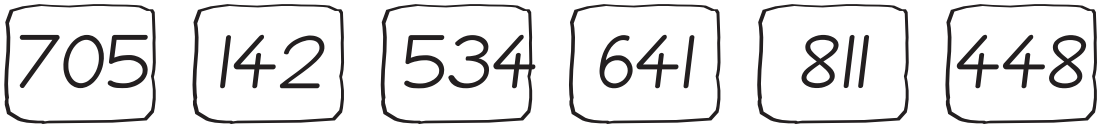
....

The number that comes just before 500 is .....

The number that comes just after 789 is .....

The numbers between 268 and 271 are ..... and .....

Cross out the numbers greater than the one in the circle.

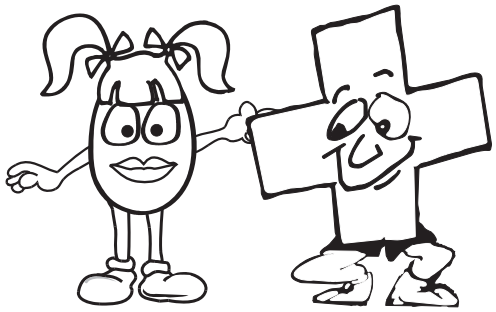


ADDITION WITH CARRYING

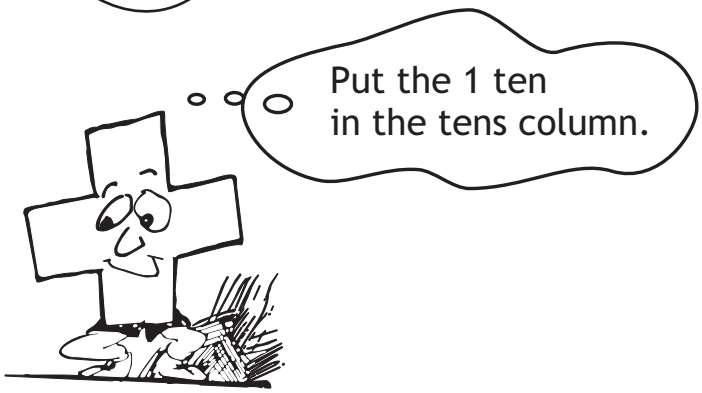
Positive Pete is here with Alicia Addison to show you how to add with carrying

Step 1.

$$\begin{array}{r} {}^{1}47 \\ +25 \\ \hline 2 \end{array}$$



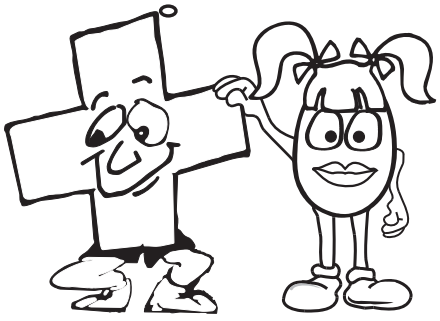
7 + 5 = 12
(1 ten plus 2 ones)

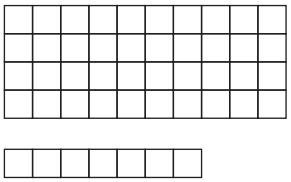


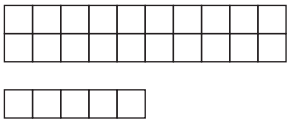
Step 2.

$$\begin{array}{r} 47 \\ +{}^{1}25 \\ \hline 72 \end{array}$$

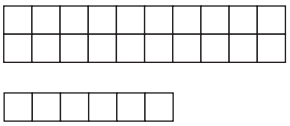
4 + 2 + 1 = 7(tens)

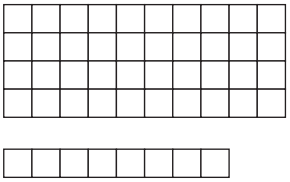






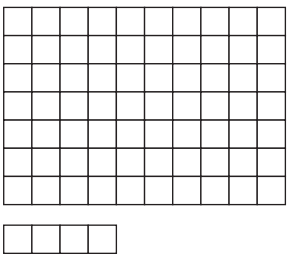
$$\begin{array}{r} 26 \\ +\ {}^{1}48 \\ \hline 74 \end{array}$$

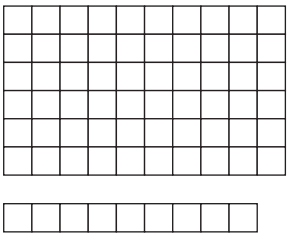




6 + 8 = 14
(4 ones, 1 ten)

2 + 4 + 1 = 7
2(tens)+4(tens)+1(ten)=7(tens)

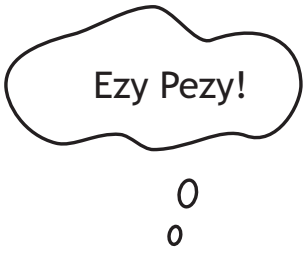


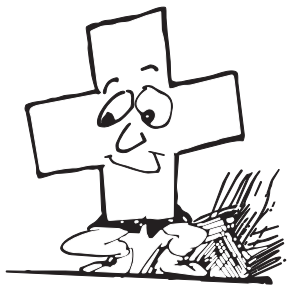


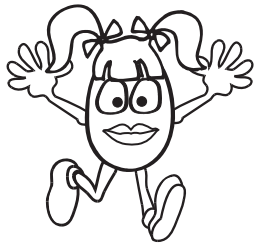
$$\begin{array}{r} 74 \\ +\ {}^{1}69 \\ \hline 143 \end{array}$$

4 + 9 = 13
(3 ones, 1 ten)

7 + 6 + 1 = 14
7(tens)+6(tens)+1(ten)=14(tens)







Alicia Addison is now off to try some addition for herself.

ADDITION

❶

8	18	28	38
+ 7	+ 7	+ 7	+ 7
____	____	____	____

❷

6	26	66	86
+ 9	+ 9	+ 9	+ 9
____	____	____	____

❸

23	23	23	23
+ 8	+ 18	+ 28	+ 58
____	____	____	____

❹

26	36	56	76
+ 6	+ 16	+ 26	+ 36
____	____	____	____

❺

24	64	84	94
+ 18	+ 28	+ 28	+ 38
____	____	____	____

ADDITION

1

24	36	48	47	56
+ 27	+ 26	+ 25	+ 37	+ 39

2

38	66	52	46	49
+ 47	+19	+ 33	+ 39	+ 36

3

83	74	65	76	98
+ 37	+ 56	+ 75	+ 74	+ 62

4

55	66	77	88	99
+ 22	+ 33	+ 44	+ 55	+ 66

5

54	65	76	87	98
+ 45	+ 56	+ 67	+ 78	+ 89

6

49	55	68	75	94
+ 62	+ 67	+ 65	+ 69	+ 61

LEVEL 1

28	57	34
+ 2	+ 3	+ 6

71	62	45	70	20
+ 9	+ 8	+ 5	+ 30	+ 80

LEVEL 2

26	55	34	22
+ 29	+ 38	+ 47	+ 68
36	29	56	27
+ 25	+ 44	+ 39	+ 53
17	56	42	35
+ 29	+ 39	+ 28	+ 26

LEVEL 3

87	74	55	92
+ 57	+ 27	+ 68	+ 65
66	78	29	65
+ 55	+ 44	+ 93	+ 38

LEVEL 4

127	219	246	165
+ 53	+ 74	+ 49	+ 28
218	104	189	255
+ 15	+ 46	+ 12	+ 45
334	319		
+ 87	+ 72		

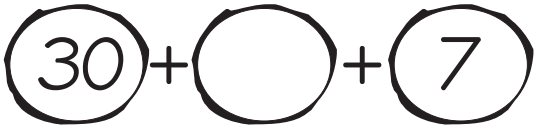
Did you beat 10 minutes?
You are on the way to becoming a Maturing Mathematician.

PARTITIONING

Partition these sums.

65

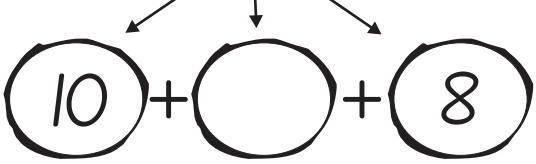
47



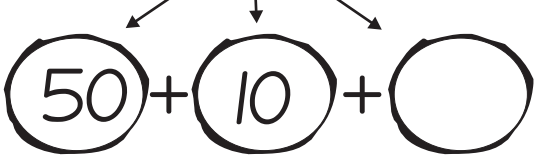
96

32

28



61



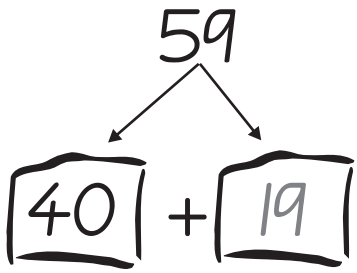
53

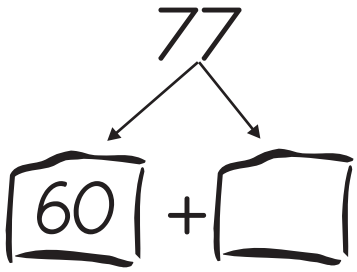
74

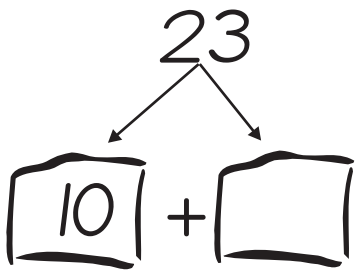
89

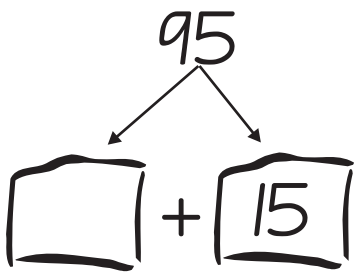
50

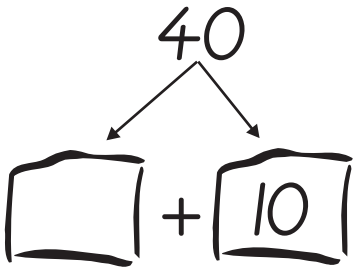
Complete these sums.

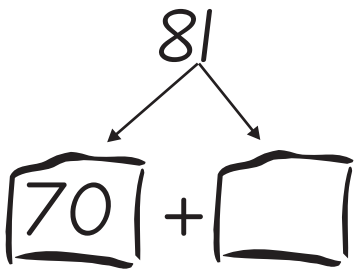


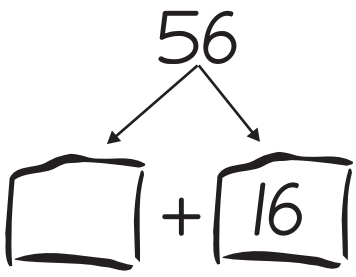


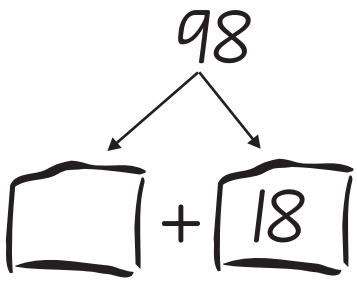


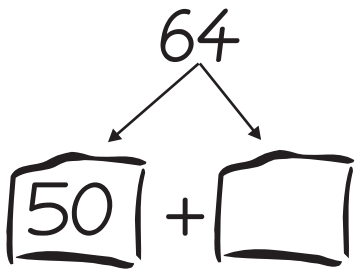


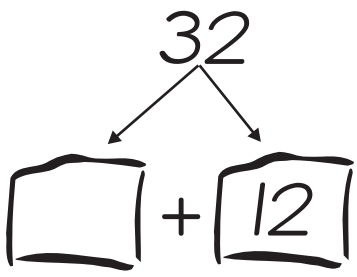




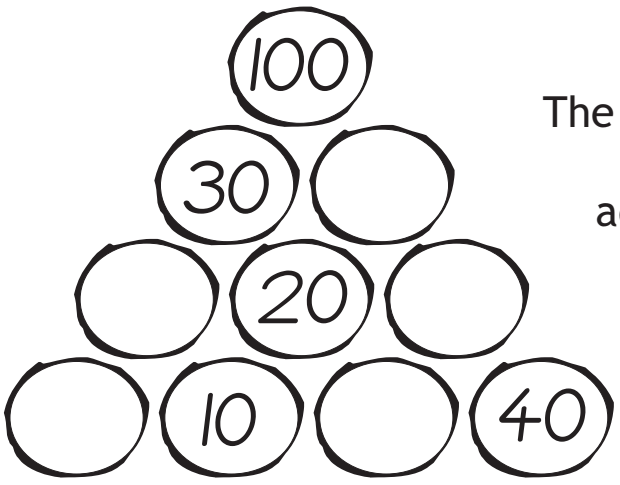








Complete the calculations.



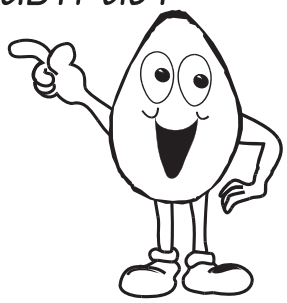
The sum of any two adjacent numbers is the number directly above.

SUBTRACTION WITH CARRYING

$$\begin{array}{r} 73 \\ -\ 25 \\ \hline \end{array}$$

Maxine Minus
and Dennis Difference
show how to subtract.

you cannot subtract
5 from 3



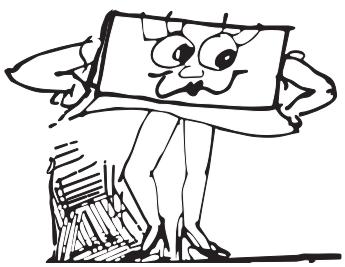
To help subtract, rearrange the
73 to equal 60 + 13.

$$\begin{array}{r} 6\,\not{7}\,{}^{1}\not{3} \\ -\ 25 \\ \hline 48 \end{array}$$

13 − 5 = 8

6 − 2 = 4

6(tens) − 2(tens) = 4(tens)

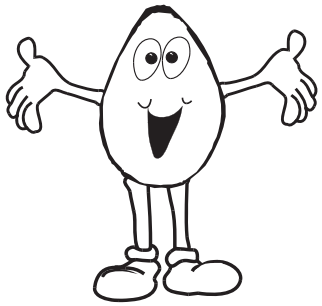


Rearrange 85
to equal 70 + 15

$$\begin{array}{r} 7\,{}^{1}\!\not{8}5 \\ -\ 28 \\ \hline 57 \end{array}$$

15 − 8 = 7

7(tens) − 2(tens) = 5(tens)



Rearrange 62
to equal 50 + 12

$$\begin{array}{r} 5\,{}^{1}\!\not{6}2 \\ -\ 47 \\ \hline 15 \end{array}$$

12 − 7 = 5

5(tens) − 4(tens) = 1(ten)

– SUBTRACTION –

1

27	36	45	38
– 12	– 23	– 34	– 17

2

26	36	56	76
– 19	– 19	– 29	– 39

3

25	43	52	34
– 17	– 18	– 26	– 25

4

36	41	57	44
– 25	– 17	– 48	– 29

5

22	35	54	93
– 16	– 19	– 47	– 68

— More Subtraction —

1

43	53	72	84	92	83
−27	−18	−46	−37	−27	−56
____	____	____	____	____	____

2

82	74	62	57	38	40
−58	−39	−37	−49	−19	−22
____	____	____	____	____	____

3

32	76	92	70	84	57
−14	−38	−39	−26	−29	−48
____	____	____	____	____	____

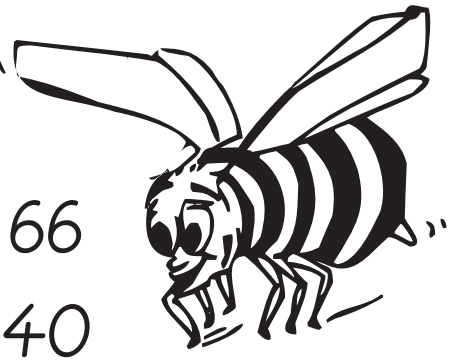
4

74	72	81	38	70	81
−38	−25	−65	− 9	−44	−27
____	____	____	____	____	____

5

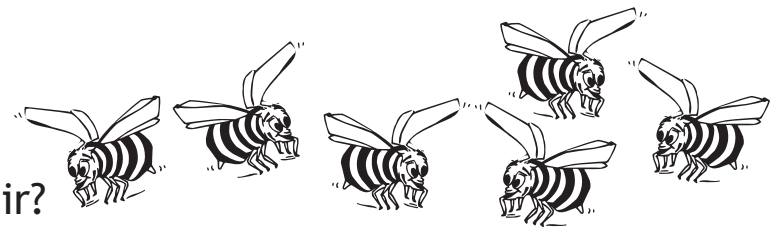
34	82	47	88	72	55
−16	−27	−39	−29	−25	−48
____	____	____	____	____	____

- ANSWER THESE SUBTRACTIONS, THEN DECODE THE QUESTIONS!



94 − 72 = K	60 − 23 = C	66 − 40 = D
71 − 21 = W	46 − 25 = R	62 − 53 = N	798 − 229 = Y
52 − 16 = M	407 − 121 = U	755 − 216 = H	845 − 365 = A
462 − 245 = O	873 − 254 = T	634 − 263 = S	654 − 288 = B
515 − 268 = E			

Why do bees have sticky hair?



.....	.....	.....	.....	.....	.....	.....	/	.....	.....	.....	.....
366	247	37	480	286	371	247	/	619	539	247	569

.....	.....	.....	/	.....	.....	.....	.....	.....
286	371	247	/	539	217	9	247	569

.....	.....	.....	.....	.....
37	217	36	366	371

Why do bees hum?

.....	.....	.....	.....		.....	.....	.....	.....		.....	.....	.....	.....		
619	539	247	569	/	26	217	9	619	/	22	9	217	50		

.....	.....	.....		.....	.....	.....	.....	.....	
619	539	247	/	50	217	21	26	371	

THE MAGIC SQUARE

6	1	8
7	5	3
2	9	4

Each row adds up to .....

Each column adds up to .....

Each diagonal adds up to .....

– MORE SUPER SUBTRACTION –

1

85	46	61	88
−62	−22	−21	−45
C	E	M	N

2

45	52	71	40
−27	−16	−26	−13
T	D	I	L

3

32	28	44	52
−15	−19	−36	−17
A	U	H	S

4

587	462	766
−247	−235	−129
R	G	W

5

655	622	514
−127	−347	−263
O	Y	P

- ANSWER THE SUBTRACTIONS THEN DECODE THIS

.....	.....	.....	.....	.....	.....
40	45	227	8	18	275

.....	.....	.....	.....	.....
40	17	18	8	35

.....	.....	.....	.....	.....	.....	.....
637	45	43	35	18	8	24

.....	.....	.....	.....	.....
637	528	340	27	36

.....	.....	.....
23	9	251

ARITHMETIC

Calculate each sum.

1

25	26	17	47
+ 35	+ 55	+ 18	+ 44
G	N	B	U

2

103	18	47
+27	+ 6	+ 23
I	T	A

3

92	82	110	62
− 59	− 23	− 70	−16
D	H	E	O

4

70	100	51
− 41	− 32	− 19
W	**C**	**S**

Why Did The Swimmer NOT Like Training In The Rain?

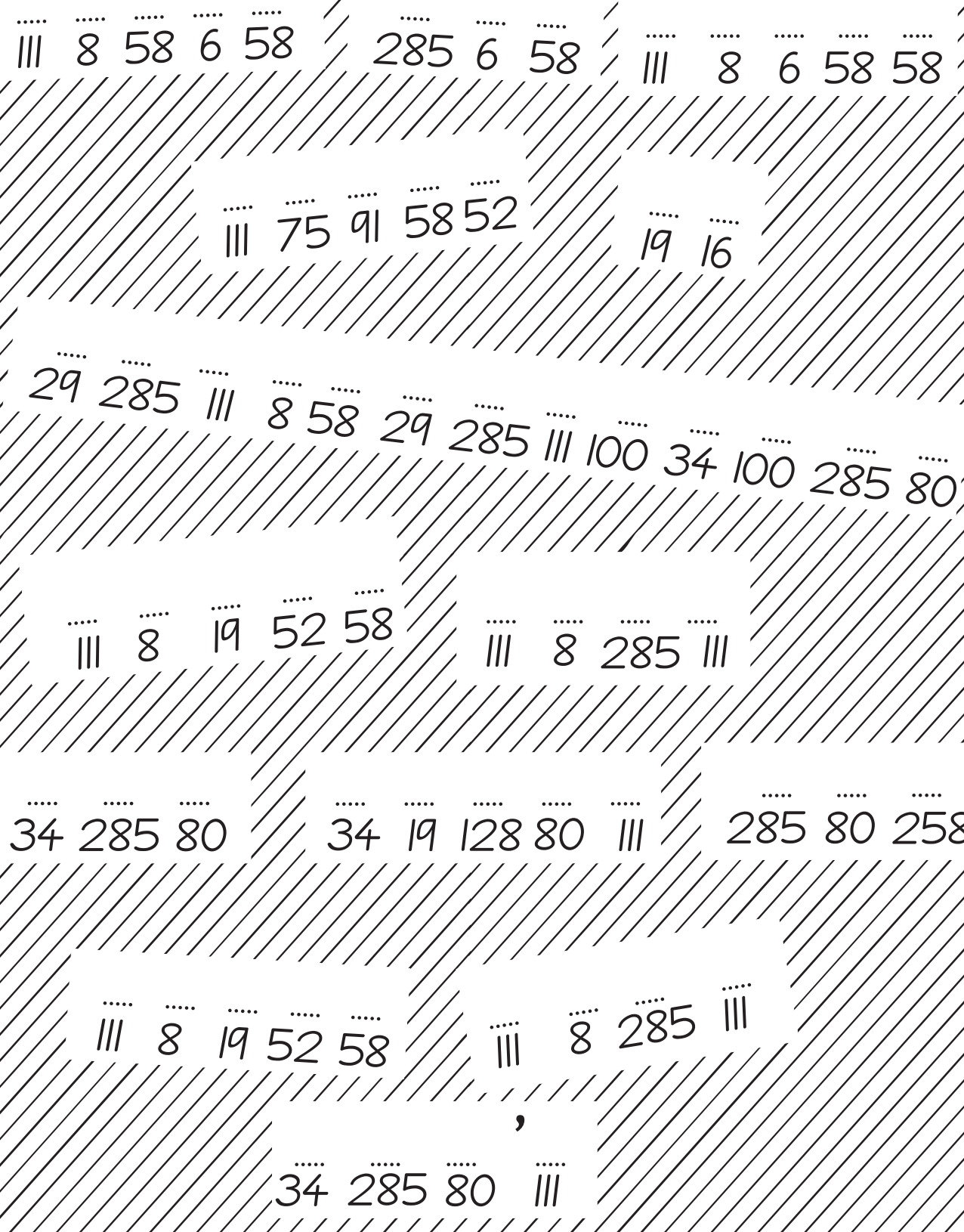
Match the letters with the answers below.

.....	.....	.....	.....	.....	.....	.....		.....	.....					
35	40	68	70	91	32	40		59	40					
		.....	.....	.....			.....	.....	.....					
		33	130	33			81	46	24					
.....	.....	.....	.....			.....	.....		.....	.....	.....			
29	70	81	24			24	46		60	40	24			
.....	.....	.....												
29	40	24	!											

MORE ARITHMETIC

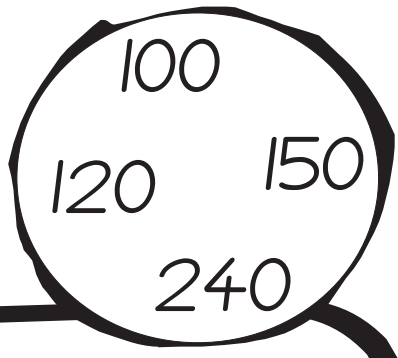
47 + 28 = Y75	37 + 43 = N	73 + 18 = P	75 + 25 = I
42 + 69 = T	83 + 45 = U	238 + 47 = A	165 + 93 = D
28 − 9 = O	41 − 33 = H	74 − 16 = E	51 − 45 = R
82 − 64 = W	93 − 59 = C	56 − 27 = M	
84 − 68 = F	91 − 39 = S		

Match the letters from the last page with the answer below.



Arithmetic

Use the numbers to complete the addition and subtraction statements below.



-Addition-

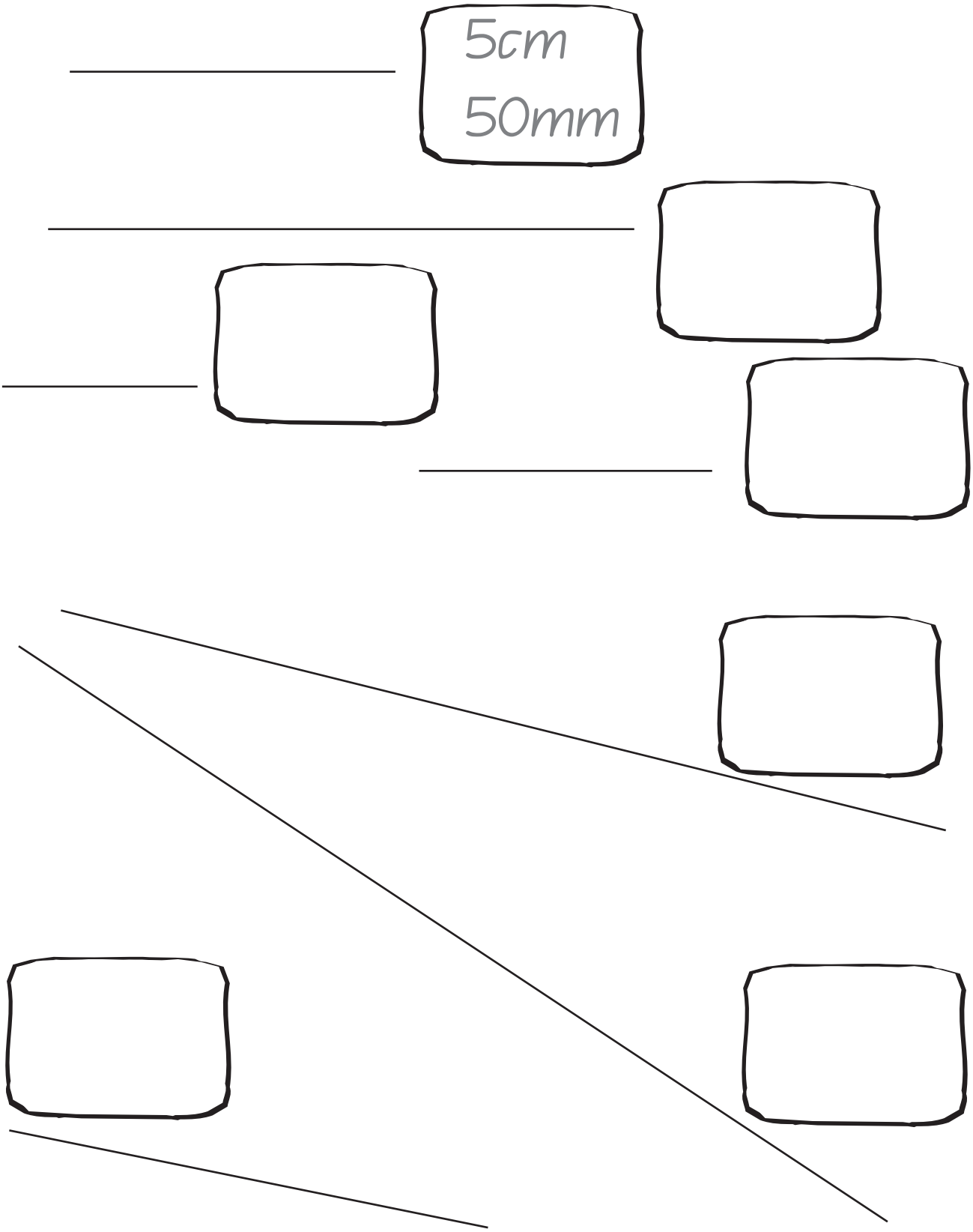
1. .....+.....=220
2. .....+.....=270
3. .....+.....=340
4. .....+.....=250
5. .....+.....=360
6. .....+.....=390

-Subtraction-

7. .....–.....=50
8. .....–.....=30
9. .....–.....=20
10. .....–.....=120
11. .....–.....=140
12. .....–.....=90

MEASURING LINES

Write down the length of each line in cm and mm.



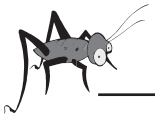
MEASURING

Show on the line where each lands

Tank the fish jumps 5 cm

Chopper the rabbit jumps 12 cm

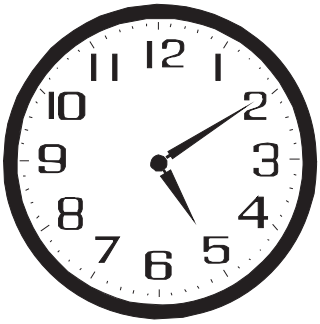
Bert the beetle jumps 3.5 cm



Charlie the cricket jumps 6 cm

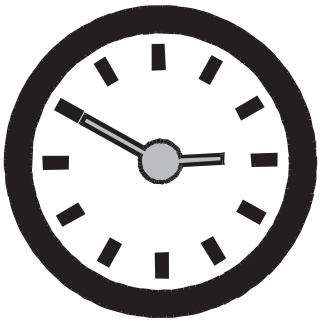
Frieda the frog jumps 9.5 cm

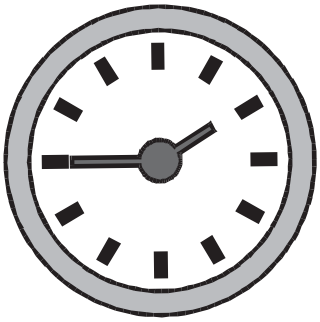
WHAT'S THE TIME?

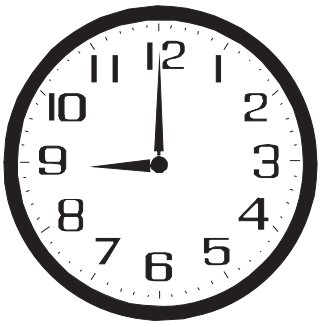


5:10

Ten past five

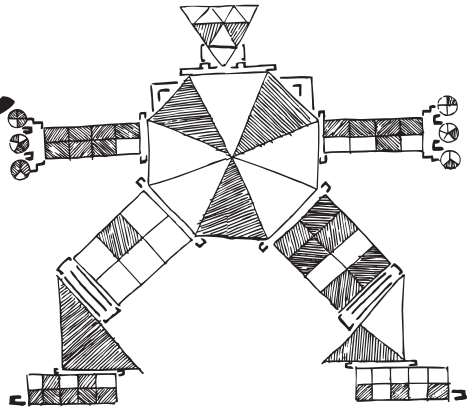






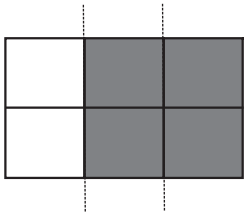
Fraction Man is back ...

.....FRACTIONS ....

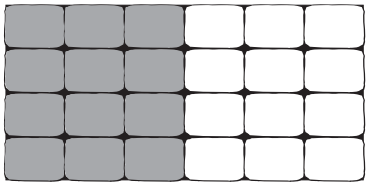


– A FRACTION IS A PART OF SOMETHING!!

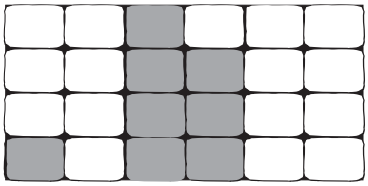
This square can be divided into 3 parts with 2 parts shaded. Therefore $\frac{2}{3}$ is shaded.



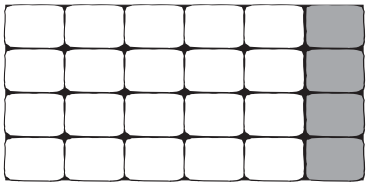
Write underneath each shape the fraction that is shaded



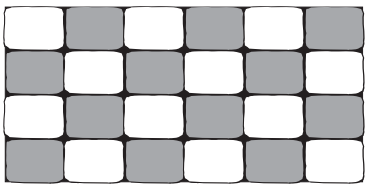
.....



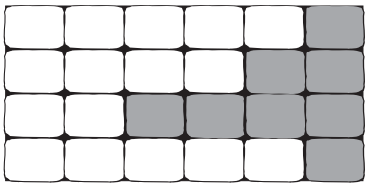
.....



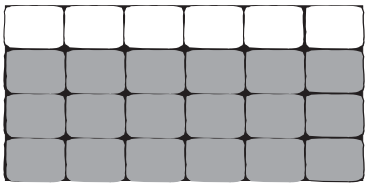
.....



.....

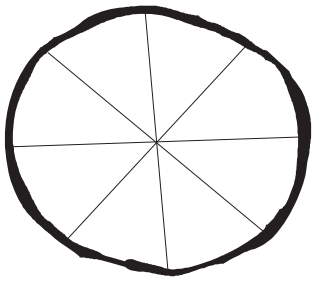


.....

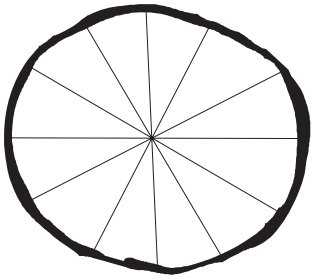


.....

Colour the parts of the shapes given.



$\frac{4}{8}$



$\frac{1}{3}$

The shape below is one unit.

Shade in each fraction.

1 half

1 third

1 quarter

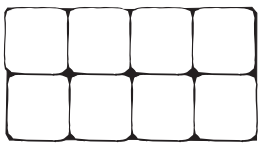
1 sixth

2 thirds

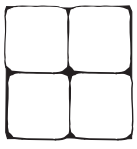
3 quarters

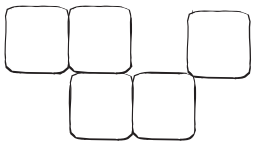
4 sixths

2 halves

If this is 1 unit 

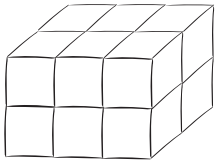
what fraction of the unit is each of these?





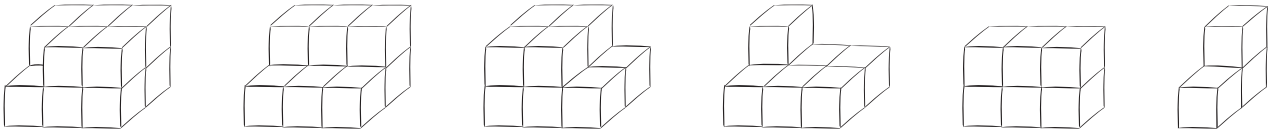
....

FRACTIONS

If this is 1 unit,  how many blocks make up this 1 unit?

.....

What fraction of the unit is each of these?



.....

Fill in the missing numbers.

2 fifths + 3 fifths = 1

3 eighths + ☐ eighths = 1

3 quarters + ☐ quarters = 1

1 third + ☐ third = 1

3 tenths + ☐ tenths = 1

3 sixths + ☐ sixths = 1

4 ninths + ☐ ninths = 1

1 half + ☐ half = 1

Draw the whole unit if this is:

1 half ☐

1 quarter ☐

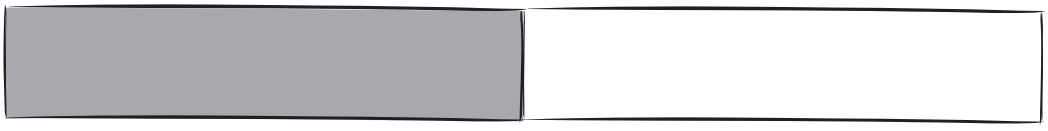
1 third ☐

1 fifth ☐

FRACTIONS

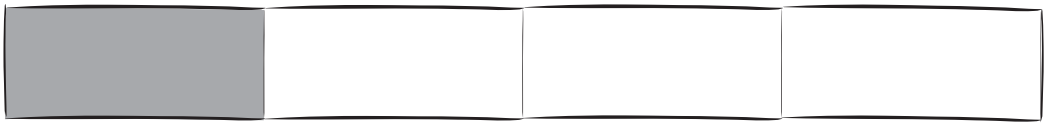
What is the value of each shaded part?

1 unit .....

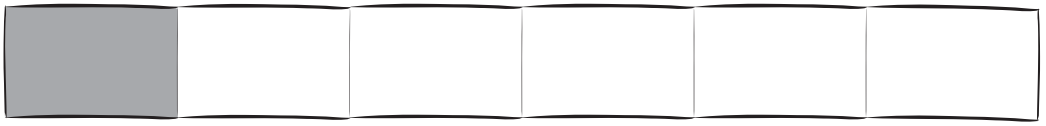


.....

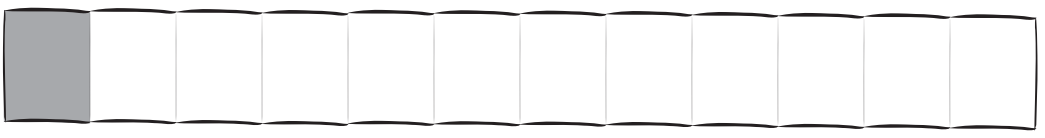
.....



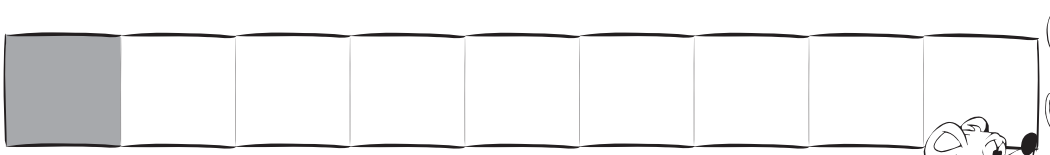
.....



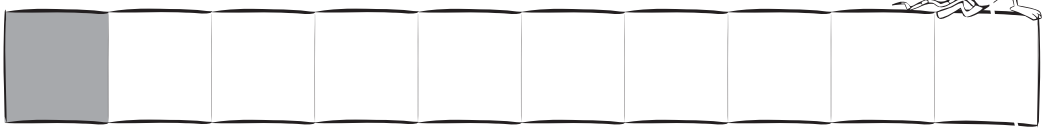
.....



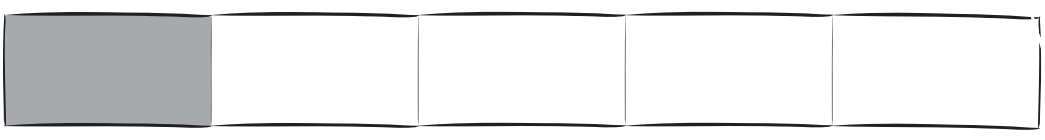
.....



.....



.....



.....

EQUIVALENT FRACTIONS

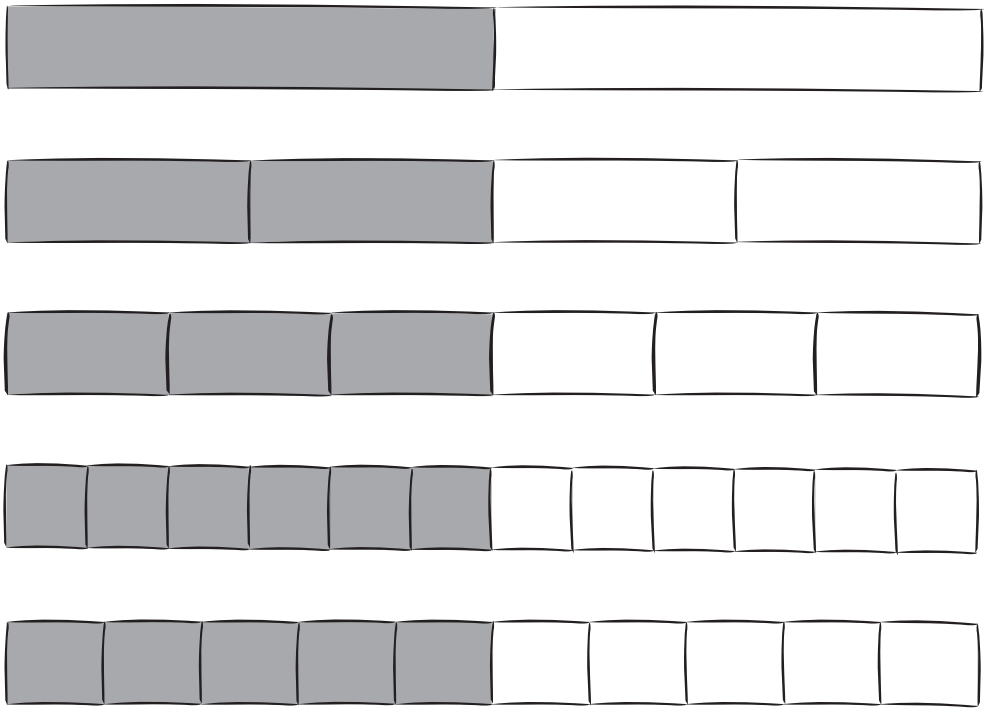
In the circle put a greater than (>), less than (<) or equal (=) sign.
HINT: The fraction blocks on the previous page may help.

$\frac{1}{2}$ > $\frac{1}{3}$ $\quad\quad$ $\frac{2}{6}$ ◯ $\frac{1}{3}$ $\quad\quad$ $\frac{3}{4}$ ◯ $\frac{2}{3}$

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

$\frac{1}{10}$ ◯ $\frac{1}{5}$ $\quad\quad$ 1 ◯ $\frac{9}{10}$ $\quad\quad$ $\frac{1}{3}$ ◯ $\frac{3}{9}$

Equivalent fractions are fractions that are the same.
Use the diagram to write down the equivalent fractions.



..... $\quad$ .....

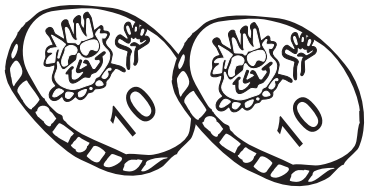
..... $\quad$ .....

..... $\quad$ .....

FRACTIONS

Half of $12

= .....

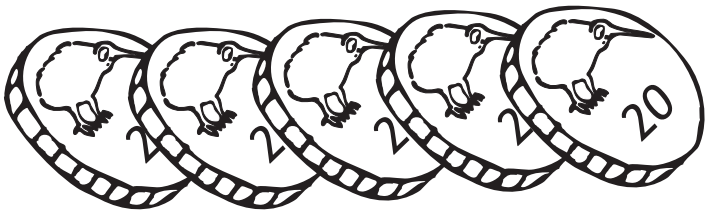


Quarter of 80c

= .....

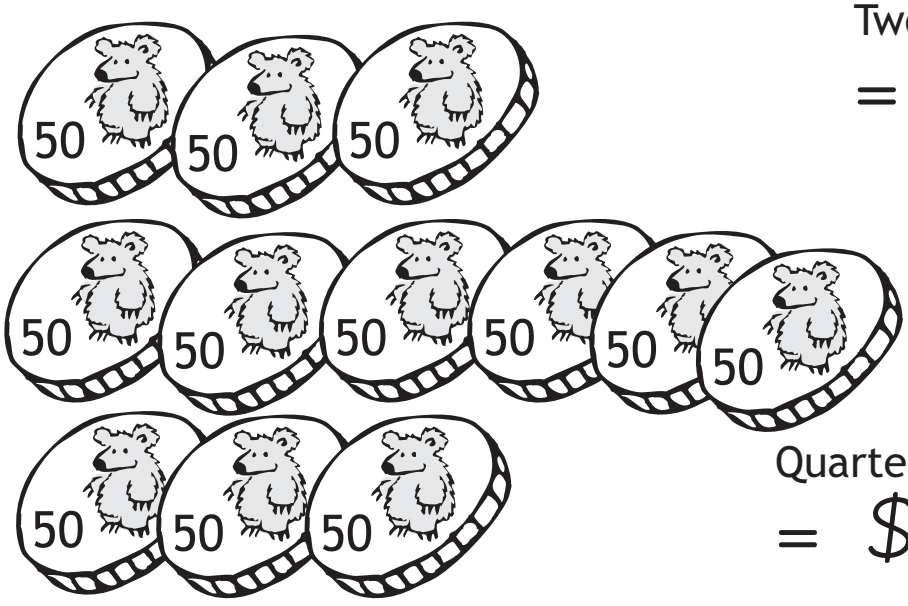
Half of $2.60

= .....



Two fifths of $1

= .....



Quarter of $6

= $.....

MORE ARITHMETIC

$30 + \square = 100$ P

$82 + \square = 89$ I

$50 + \square = 90$ N

$64 + \square = 90$ G

$40 + \square = 60$ J

$47 + \square = 60$ M

$80 - \square = 30$ F

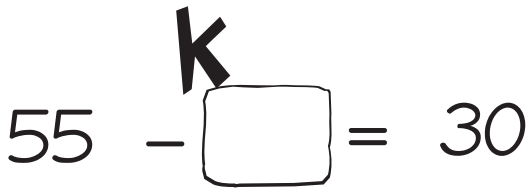
$18 + \square = 21$ O

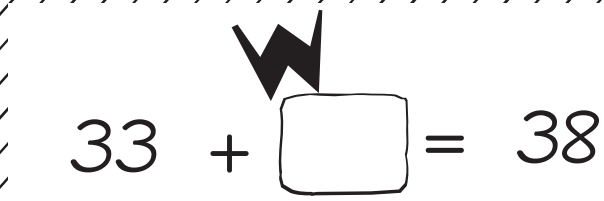
$50 - \square = 40$ E

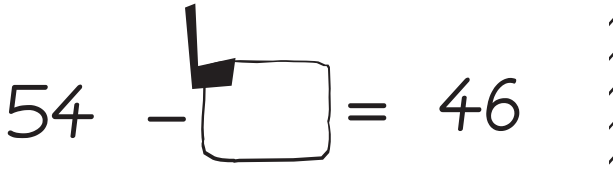
$95 - \square = 80$ Z

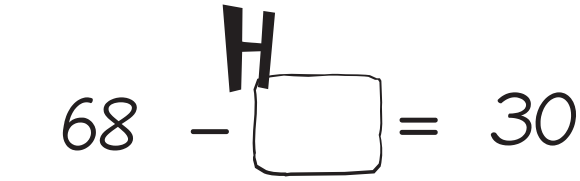
$100 - \square = 70$ S

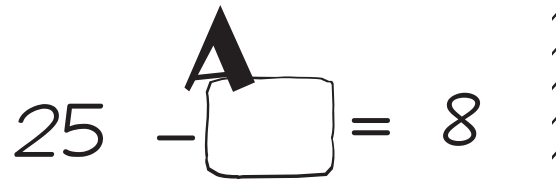
$80 - \square = 20$ C

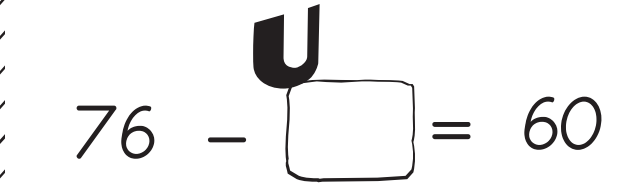

K
55 − = 30

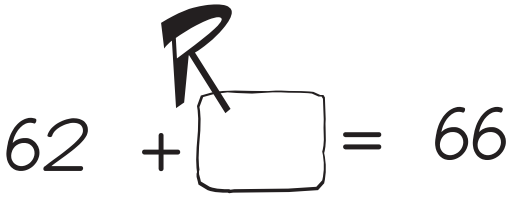

W
33 + = 38

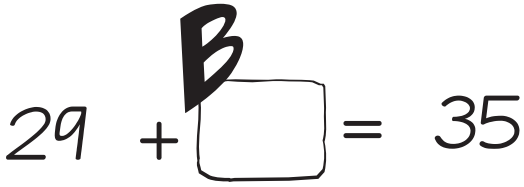

L
54 − = 46

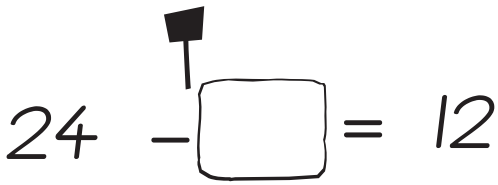

H
68 − = 30

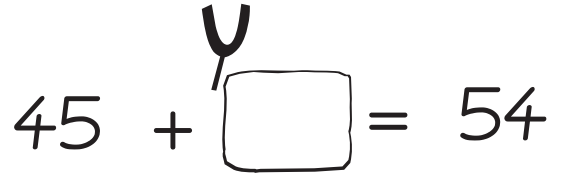

A
25 − = 8


U
76 − = 60


R
62 + = 66


B
29 + = 35


T
24 − = 12

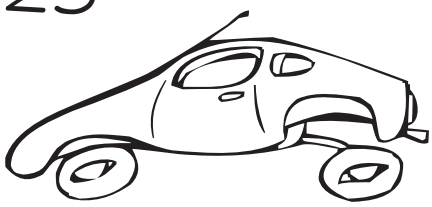

Y
45 + = 54

Use your answers from the last two pages to match the letters and complete the jokes.

Doctor Doctor

I think I'm a car!

20	16	30	12	70	17	4	25
9	3	16	4	30	10	8	50



I'll be with you in a minute

Doctor Doctor

I think I'm a dog!

12	38	10	40	26	10	12	3	50	50
12	38	10	60	3	16	60	38		

I'll be with you in a minute

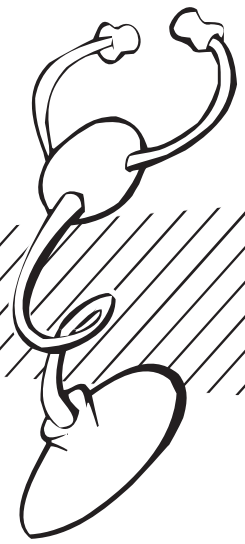
Doctor Doctor

I feel like a curtain!

70 16 8 8 9 3 16 4 30 10 8 50

12 3 26 10 12 38 10 4

I'll be with you in a minute



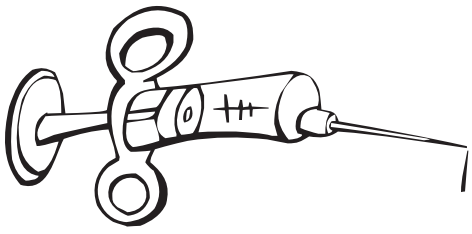
Doctor Doctor

I only have 59 seconds to live!

7 8 8 6 10 5 7 12 38

9 3 16 7 40 17

13 7 40 16 12 10 !



Find The MISSING NUMBERS

1

6	□	2□	1□
+ □	+ 9	+ 3	+ 3
14	18	27	22

2

23	12	37	27
+ 1□	+ □8	+ 2□	+ □5
40	30	57	52

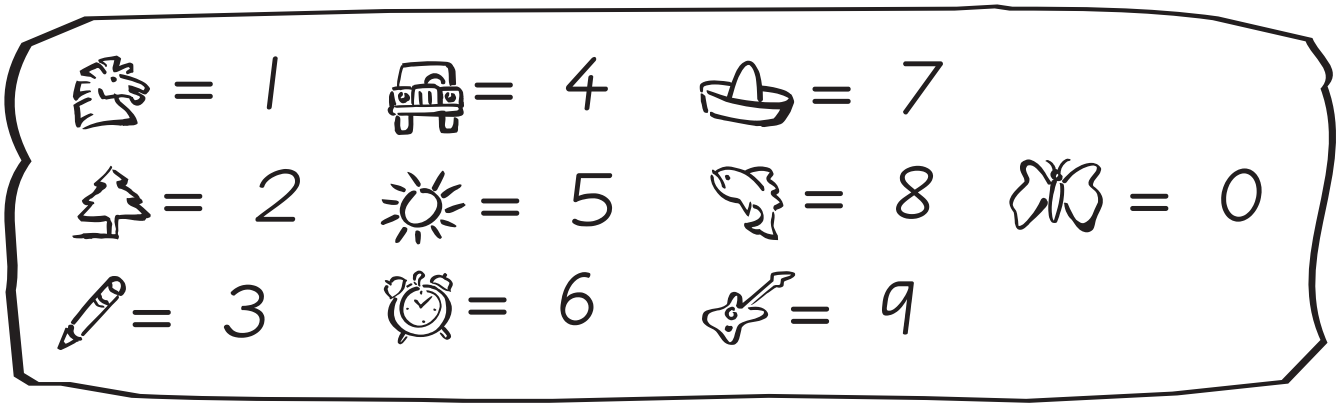
3

7	27	3□	42
− □	− □□	− 4	− □5
3	13	35	17

4

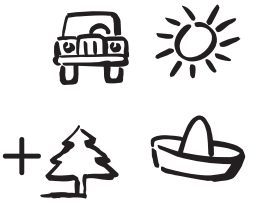
4□	52	46	63
− 26	− 1□	− □8	− 3□
21	34	8	27

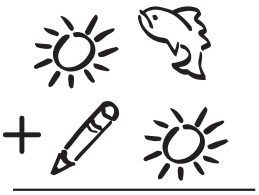
CRACK THE CODE



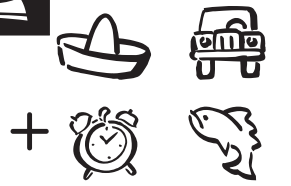
1

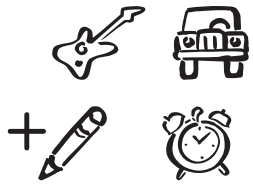
4 5

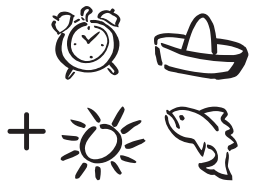




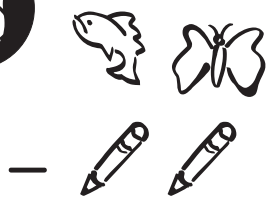
2

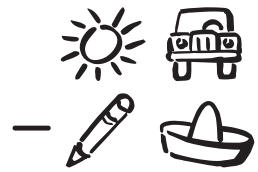




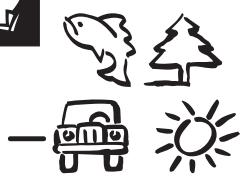


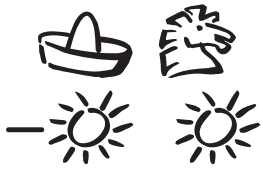
3



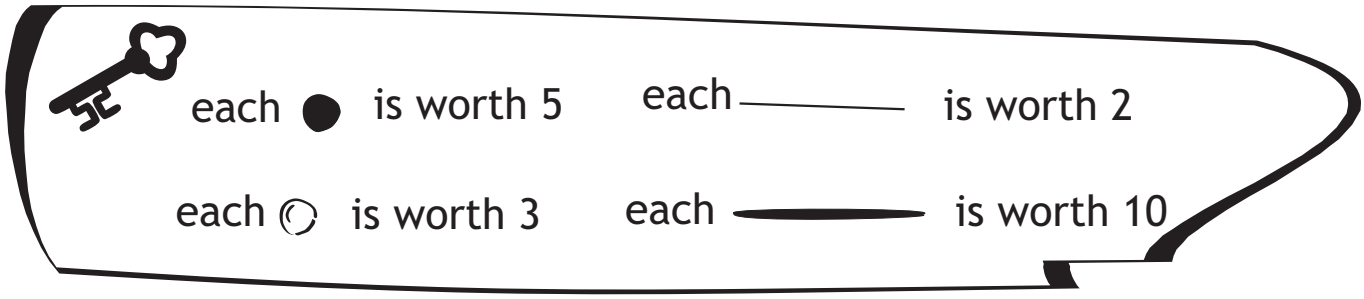


4



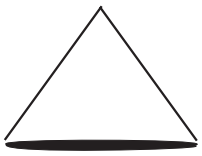


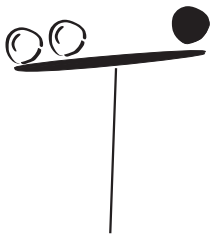
MORE MIGHTY MATHS

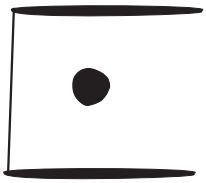


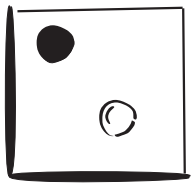
Use the key above to calculate the values of each shape.

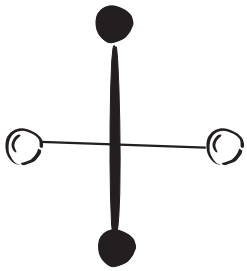
3+2+3 =8

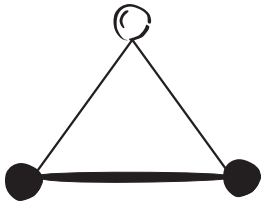


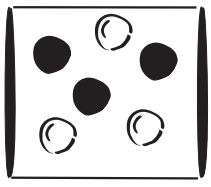






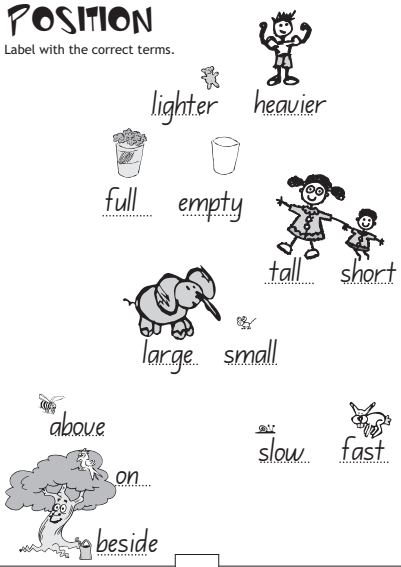






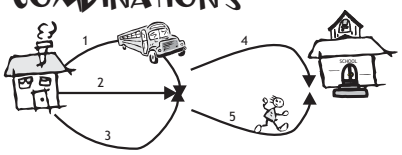
POSITION

Label with the correct terms.



5

COMBINATIONS



There are 5 roads that lead to school. List all the different combinations of routes that can be taken.

1, 4 2, 4 3, 4

1, 5 2, 5 3, 5

List the ways in which you can hang the photos

Celine Ryan Robbie Robbie Celine Ryan

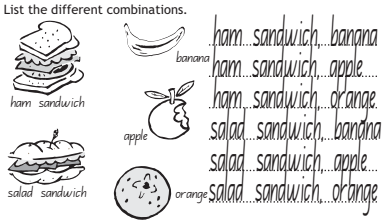
Celine Robbie Ryan Ryan Robbie Celine

Robbie Ryan Celine Ryan Celine Robbie

6

MORE COMBINATIONS

Choose 1 sandwich and 1 kind of fruit.
List the different combinations.



ham sandwich, banana
ham sandwich, apple
ham sandwich, orange
salad sandwich, banana
salad sandwich, apple
salad sandwich, orange

Three numbers are purchased for the mail box. What are the different digit numbers that can be produced from 2, 5 and 8?

258
285
528
582
852
825

7

NUMBER SERIES

Write the largest and smallest numbers that can be formed from these digits. (Repetition of digits is not allowed.)

	Largest	Smallest
4 1 2	4 2 1	1 2 4
7 4 5	7 5 4	4 5 7
8 0 2	8 2 0	0 2 8
3 9 6	9 6 3	3 6 9

Complete each number series below.

705, 704, 703, 702, 701, 700, 699

210, 212, 214, 216, 218, 220, 222

435, 440, 445, 450, 455, 460, 465

880, 870, 860, 850, 840, 830, 820

8

NUMBER SERIES

Arrange these numbers in ascending order.

264 426 624 462 642 246

Ascending order means smallest to biggest.

246 264 426 462 624 642

105 505 515 550 551 555

555 550 105 551 505 515

Arrange these numbers in descending order.

857 875 758 578 785 587

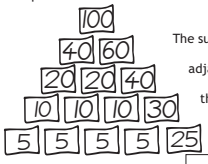
Descending order means biggest to smallest.

875 857 785 758 587 578

652 625 562 526 265 256

256 265 526 625 562 652

Complete the calculations.

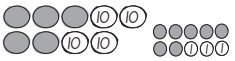


The sum of any two adjacent numbers is the number directly above.

9

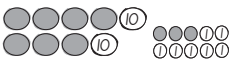
ADDITION

Shade the circles that represent the number 57 then give the answer.



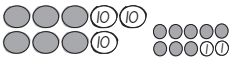
57+43 = 100

Shade the circles that represent the number 73 then give the answer.



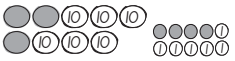
73+27 = 100

Shade the circles that represent the number 68 then give the answer.



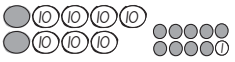
68+32 = 100

Shade the circles that represent the number 34 then give the answer.



34+66 = 100

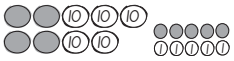
Shade the circles that represent the number 29 then give the answer.



29+71 = 100

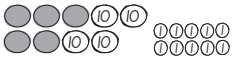
10

Shade the circles that represent the number 45 then give the answer.



45+55 = 100

Shade the circles that represent the number 50 then give the answer.

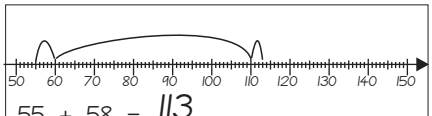


50+50 = 100

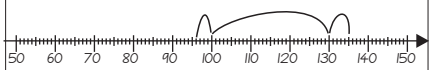
Complete these sums.

40 + 60 = 100	32 + 68 = 100
30 + 70 = 100	85 + 15 = 100
50 + 50 = 100	3 + 97 = 100
70 + 30 = 100	7 + 93 = 100
1 + 99 = 100	4 + 96 = 100
2 + 98 = 100	23 + 77 = 100
5 + 95 = 100	67 + 33 = 100
51 + 49 = 100	54 + 46 = 100

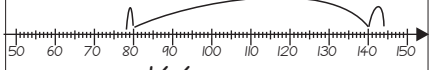
11



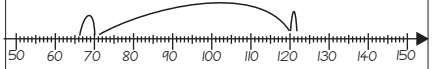
55 + 58 = 113



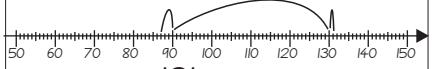
96 + 39 = 135



78 + 66 = 144

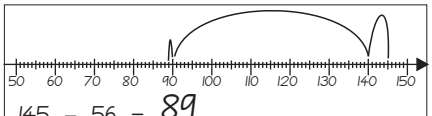


66 + 56 = 122

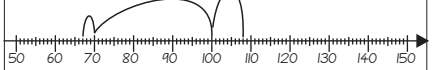


87 + 44 = 131

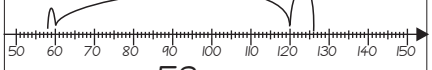
13



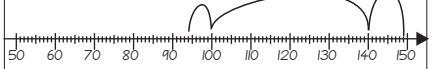
145 – 56 = 89



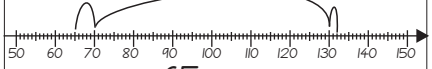
108 – 41 = 67



126 – 68 = 58



149 – 55 = 94



132 – 67 = 65

15

PLACE VALUE

The value of the digit 8 in the number 483 is eighty

The value of the digit 2 in the number 852 is two (ones)

The value of the digit 5 in the number 591 is five hundred

The value of the digit 0 in the number 307 is zero (no) tens

The value of the digit 7 in the number 740 is seven hundred

Write these numbers in the correct order.

316 313 315 312 314

312 313 314 315 316

561 560 577 578 579

560 561 577 578 579

850 853 849 851 852

849 850 851 852 853

16

MIGHTY MATHS

249 + 1 = 250

299 + 1 = 300

329 + 10 = 339

150 − 3 = 147

581 − 2 = 579

578 − 10 = 568

389 + 1 = 390

546 + 10 = 556

161 + 10 = 171

214 − 10 = 204

131 − 2 = 129

246 − 10 = 236

Start at the dot and continue to add 5 to each number

150 160 170 180 190 200 210 220 230 240 250

154, 159, 164, 169, 174, 179, 184, 189, 194, 199, 204

209, 214, 219, 224, 229, 234, 239, 244, 249

270 280 290 300 310 320 330 340 350 360 370

277, 282, 287, 292, 297, 302, 307, 312, 317, 322, 327

332, 337, 342, 347, 352, 357, 362, 367

510 520 530 540 550 560 570 580 590 600 610

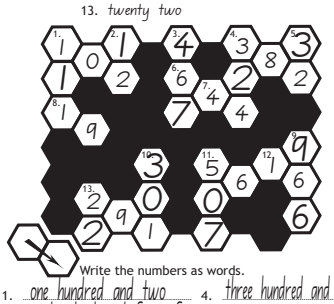
518, 523, 528, 533, 538, 543, 548, 553, 558, 563

568, 573, 578, 583, 588, 593, 598, 603, 608

17

Write these numbers into the hexanumber.

1. one hundred and eleven
2. twelve
3. four hundred and sixty seven
4. three hundred and twenty four
5. thirty two
9. nine hundred and sixty six
10. three hundred and one
11. five hundred and seven
13. twenty two



Write the numbers as words.

1. one hundred and two
4. three hundred and eighty two
6. six hundred and forty four
8. nineteen
11. fifty six
12. sixteen
13. two hundred and ninety one

18

SEQUENCES

Increase / decrease by 1 to finish each sequence.

315, 316, 317, 318, 319, 320, 321, 322, 323, 324

567, 568, 569, 570, 571, 572, 573, 574, 575, 576

721, 720, 719, 718, 717, 716, 715, 714, 713, 712

902, 901, 900, 899, 898, 897, 896, 895, 894, 893

Increase / decrease by 2 to finish each sequence.

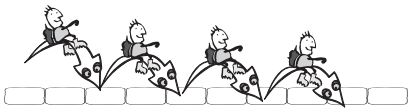
210, 212, 214, 216, 218, 220, 222, 224, 226, 228

832, 834, 836, 838, 840, 842, 844, 846, 848, 850

500, 502, 504, 506, 508, 510, 512, 514, 516, 518

720, 718, 716, 714, 712, 710, 708, 706, 704, 702

680, 678, 676, 674, 672, 670, 668, 666, 664, 662



19

SEQUENCES

Increase / decrease by 5 to finish each sequence.

125, 130, 135, 140, 145, 150, 155, 160, 165, 170

650, 655, 660, 665, 670, 675, 680, 685, 690, 695

104, 109, 114, 119, 124, 129, 134, 139, 144, 149

320, 315, 310, 305, 300, 295, 290, 285, 280, 275

205, 200, 195, 190, 185, 180, 175, 170, 165, 160

Increase / decrease by 10 to finish each sequence.

211, 221, 231, 241, 251, 261, 271, 281, 291, 301

555, 565, 575, 585, 595, 605, 615, 625, 635, 645

707, 717, 727, 737, 747, 757, 767, 777, 787, 797

990, 980, 970, 960, 950, 940, 930, 920, 910, 900

455, 445, 435, 425, 415, 405, 395, 385, 375, 365

20

SEQUENCES

Write the numbers in ascending order.
(Ascending order means smallest to biggest.)

228 235 204 213

204 213 228 235

449 420 481 403

403 420 449 481

811 825 820 803 838

803 811 820 825 838

Write the largest and smallest numbers that can be formed from each of these digits.

1 6 4

641 146

2 8 5

852 258

7 3 9

973 379

8 0 2

820 28

The number that comes just before 500 is 499

The number that comes just after 789 is 790

The numbers between 268 and 271 are 269 and 270

Cross out the numbers greater than the one in the circle.

632 | ~~785~~ | 142 | 534 | ~~641~~ | ~~811~~ | 448

21

ADDITION

❶ 8 + 7 = 15; 18 + 7 = 25; 28 + 7 = 35; 38 + 7 = 45

❷ 6 + 9 = 15; 26 + 9 = 35; 66 + 9 = 75; 86 + 9 = 95

❸ 23 + 8 = 31; 23 + 18 = 41; 23 + 28 = 51; 23 + 58 = 81

❹ 26 + 6 = 32; 36 + 16 = 52; 56 + 26 = 82; 76 + 36 = 112

❺ 24 + 18 = 42; 64 + 28 = 92; 84 + 28 = 112; 94 + 38 = 132

24

ADDITION

❶ 24 + 27 = 51; 36 + 26 = 62; 48 + 25 = 73; 47 + 37 = 84; 56 + 39 = 95

❷ 38 + 47 = 85; 66 + 19 = 85; 52 + 33 = 85; 46 + 39 = 85; 49 + 36 = 85

❸ 83 + 37 = 120; 74 + 56 = 130; 65 + 75 = 140; 76 + 74 = 150; 98 + 62 = 160

❹ 55 + 22 = 77; 66 + 33 = 99; 77 + 44 = 121; 88 + 55 = 143; 99 + 66 = 165

❺ 54 + 45 = 99; 65 + 56 = 121; 76 + 67 = 143; 87 + 78 = 165; 98 + 89 = 187

❻ 49 + 62 = 111; 55 + 67 = 122; 68 + 65 = 133; 75 + 69 = 144; 94 + 61 = 155

25

LEVEL 1

28 + 2 = 30; 57 + 3 = 60; 34 + 6 = 40

BEAT THE CLOCK! You have 10 minutes

71 + 9 = 80; 62 + 8 = 70; 45 + 5 = 50; 70 + 30 = 100; 20 + 80 = 100

LEVEL 2

26 + 29 = 55; 55 + 38 = 93; 34 + 47 = 81; 22 + 68 = 90

36 + 25 = 61; 29 + 44 = 73; 56 + 39 = 95; 27 + 53 = 80

17 + 29 = 46; 56 + 39 = 95; 42 + 28 = 70; 35 + 26 = 61

26

LEVEL 3

87 + 57 = 144	74 + 27 = 101	55 + 68 = 123	92 + 65 = 157
66 + 55 = 121	78 + 44 = 122	29 + 93 = 122	65 + 38 = 103

LEVEL 4

127 + 53 = 180	219 + 74 = 293	246 + 49 = 295	165 + 28 = 193
218 + 15 = 233	104 + 46 = 150	189 + 12 = 201	255 + 45 = 300
334 + 87 = 421	319 + 72 = 391		

Did you beat 10 minutes? You are on the way to becoming a Maturing Mathematician.

27

PARTITIONING

Partition these sums.

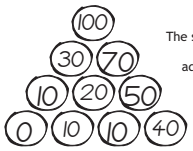
65 = 50 + 10 + 5
47 = 30 + 10 + 7
96 = 80 + 10 + 6
32 = 20 + 10 + 2
28 = 10 + 10 + 8
61 = 50 + 10 + 1
53 = 40 + 10 + 3
74 = 60 + 10 + 4
89 = 70 + 10 + 9
50 = 40 + 10 + 0

28

Complete these sums.

59 = 40 + 19
77 = 60 + 17
23 = 10 + 13
95 = 80 + 15
40 = 30 + 10
81 = 70 + 11
56 = 40 + 16
98 = 80 + 18
64 = 50 + 14
32 = 20 + 12

Complete the calculations.



The sum of any two adjacent numbers is the number directly above.

29

SUBTRACTION

❶	27 − 12 = 15	36 − 23 = 13	45 − 34 = 11	38 − 17 = 21
❷	26 − 19 = 7	36 − 19 = 17	56 − 29 = 27	76 − 39 = 37
❸	25 − 17 = 8	43 − 18 = 25	52 − 26 = 26	34 − 25 = 9
❹	36 − 25 = 11	41 − 17 = 24	57 − 48 = 9	44 − 29 = 15
❺	22 − 16 = 6	35 − 19 = 16	54 − 47 = 7	93 − 68 = 25

32

MORE SUBTRACTION

1	43 − 27 = 16	53 − 18 = 35	72 − 46 = 26	84 − 37 = 47	92 − 27 = 65	83 − 56 = 27
2	82 − 58 = 24	74 − 39 = 35	62 − 37 = 25	57 − 49 = 8	38 − 19 = 19	40 − 22 = 18
3	32 − 14 = 18	76 − 38 = 38	92 − 39 = 53	70 − 26 = 44	84 − 29 = 55	57 − 48 = 9
4	74 − 38 = 36	72 − 25 = 47	81 − 65 = 16	38 − 9 = 29	70 − 44 = 26	81 − 27 = 54
5	34 − 16 = 18	82 − 27 = 55	47 − 39 = 8	88 − 29 = 59	72 − 25 = 47	55 − 48 = 7

33

ANSWER THESE SUBTRACTIONS, THEN DECODE THE QUESTIONS!

94 − 72 = 22 K	60 − 23 = 37 G	66 − 40 = 26 D	71 − 21 = 50 W	46 − 25 = 21 R	62 − 53 = 9 N
798 − 229 = 569 Y	52 − 16 = 36 M	407 − 121 = 286 V	755 − 216 = 539 H	845 − 365 = 480 A	462 − 245 = 217 O
873 − 254 = 619 T	634 − 263 = 371 S	654 − 288 = 366 B	515 − 268 = 247 E		

34

Why do bees have sticky hair?

BECAUSE / THEY
366 247 37 480 286 371 247 / 619 539 247 569

USE / HONEY
286 371 247 / 539 217 9 247 569

COMBS
37 217 36 366 371

Why do bees hum?

THEY / DON'T / KNOW
619 539 247 569 / 26 217 9 619 / 22 9 217 50

THE / WORDS
619 539 247 / 50 217 21 26 371

THE MAGIC SQUARE

6	1	8
7	5	3
2	9	4

Each row adds up to 15
Each column adds up to 15
Each diagonal adds up to 15

35

MORE SUPER SUBTRACTION

1	85 − 62 = 23 C	46 − 22 = 24 E	61 − 21 = 40 M	88 − 45 = 43 N
2	45 − 27 = 18 T	52 − 16 = 36 D	71 − 26 = 45 I	40 − 13 = 27 L
3	32 − 15 = 17 A	28 − 19 = 9 U	44 − 36 = 8 H	52 − 17 = 35 S

36

4	587 − 247 = 340 R	462 − 235 = 227 C	766 − 129 = 637 W
5	655 − 127 = 528 O	622 − 347 = 275 Y	514 − 263 = 251 P

ANSWER THE SUBTRACTIONS THEN DECODE THIS

MIGHTY / MATHS / WINS / THE / WORLD / CUP
40 45 227 8 18 275 / 40 17 18 8 35 / 637 45 43 35 / 18 8 24 / 637 528 340 27 36 / 23 9 251

37

Arithmetic

Calculate each sum.

1

25	26	17	47
+ 35	+ 55	+ 18	+ 44
G 60	N 81	B 35	U 91

2

103	18	47
+ 27	+ 6	+ 23
I 130	T 24	A 70

3

92	82	110	62
− 59	− 23	− 70	− 16
D 33	H 59	E 40	O 46

38

4

70	100	51
− 41	− 32	− 19
W 29	C 68	S 32

Why Did The Swimmer NOT Like Training In The Rain?

Match the letters with the answers below.

BECAUSE	HE	DID	NOT
35 40 68 70 91 32 40	59 40	33 130 33	81 46 24

WANT	TO	GET
29 70 81 24	24 46	60 40 24

WET!
29 40 24

39

More Arithmetic

47	37	73	75
+ 28	+ 43	+ 18	+ 25
Y 75	N 80	P 91	I 100

42	83	238	165
+ 69	+ 45	+ 47	+ 93
T 111	U 128	A 285	D 258

28	41	74	51
− 9	− 33	− 16	− 45
O 19	H 8	E 58	R 6

82	93	56
− 64	− 59	− 27
W 18	C 34	M 29

84	91
− 68	− 39
F 16	S 52

40

Match the letters from the last page with the answer below.

THERE	ARE	THREE
111 8 58 6 58	285 6 58	111 8 6 58 58

TYPES	OF
111 75 91 58 52	19 16

MATHEMATICIAN
29 285 111 8 58 29 285 111 100 34 100 285 80

THOSE	THAT
111 8 19 52 58	111 8 285 111

CAN	COUNT	AND
34 285 80	34 19 128 80 111	285 80 258

THOSE	THAT
111 8 19 52 58	111 8 285 111

CAN'T
34 285 80 111

41

Arithmetic

Use the numbers to complete the addition and subtraction statements below.

100 120 150 240

Addition	Subtraction
1 120 + 100 = 220	7 150 − 100 = 50
2 120 + 150 = 270	8 150 − 120 = 30
3 240 + 100 = 340	9 120 − 100 = 20
4 150 + 100 = 250	10 240 − 120 = 120
5 240 + 120 = 360	11 240 − 100 = 140
6 240 + 150 = 390	12 240 − 150 = 90

42

Measuring Lines

Write down the length of each line in cm and mm.

5cm 50mm

9 cm 90 mm

3 cm 30 mm

4.5 cm 45 mm

14 cm 140 mm

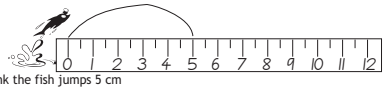
7.5 cm 75 mm

16 cm 160 mm

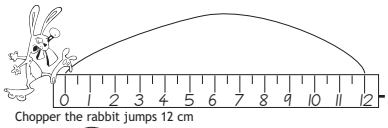
43

Measuring

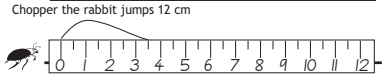
Show on the line where each lands



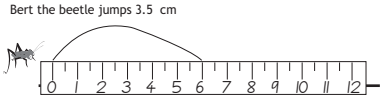
Tank the fish jumps 5 cm



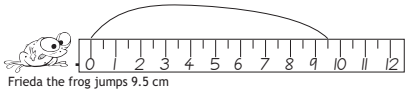
Chopper the rabbit jumps 12 cm



Bert the beetle jumps 3.5 cm



Charlie the cricket jumps 6 cm



Frieda the frog jumps 9.5 cm

44

What's The Time?

5:10 Ten past five

7:30 Seven thirty

5:00 Five oclock

2:50 Ten to three

1:45 Quarter to two

9:00 Nine oclock

10:30 Ten thirty

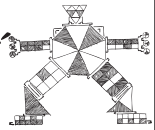
11:35 Eleven thirty five

45

Fraction Man is back ...

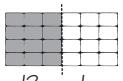
.....FRACTIONS....

– A FRACTION IS A PART OF SOMETHING!!

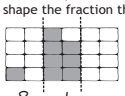


This square can be divided into 3 parts with 2 parts shaded. Therefore $\frac{2}{3}$ is shaded.

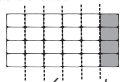
Write underneath each shape the fraction that is shaded



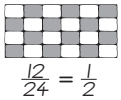
$\frac{12}{24} = \frac{1}{2}$



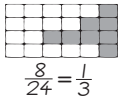
$\frac{8}{24} = \frac{1}{3}$



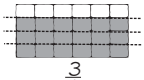
$\frac{4}{24} = \frac{1}{6}$



$\frac{12}{24} = \frac{1}{2}$



$\frac{8}{24} = \frac{1}{3}$



$\frac{3}{4}$

Colour the parts of the shapes given.

$\frac{4}{8}$

$\frac{1}{3}$

Any 4 parts can be shaded

46

The shape below is one unit.

Shade in each fraction.

1 half

1 third

1 quarter

1 sixth

2 thirds

3 quarters

4 sixths

2 halves

If this is 1 unit

what fraction of the unit is each of these?

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{2}$ $\frac{5}{8}$

47

FRACTIONS

If this is 1 unit, how many blocks make up this 1 unit?

12 blocks

What fraction of the unit is each of these?

$\frac{11}{12}$ $\frac{9}{12}=\frac{3}{4}$ $\frac{10}{12}=\frac{5}{6}$ $\frac{7}{12}$ $\frac{6}{12}=\frac{1}{2}$ $\frac{3}{12}=\frac{1}{4}$

Fill in the missing numbers.

2 fifths + 3 fifths = 1

3 quarters + 1 quarters = 1

3 tenths + 7 tenths = 1

4 ninths + 5 ninths = 1

3 eighths + 5 eighths = 1

1 third + 2 third = 1

3 sixths + 3 sixths = 1

1 half + 1 half = 1

Draw the whole unit if this is:

1 half

1 quarter

1 third

1 fifth

48

FRACTIONS

What is the value of each shaded part?

1 unit

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{6}$

$\frac{1}{12}$

$\frac{1}{9}$

$\frac{1}{10}$

$\frac{1}{5}$

49

EQUIVALENT FRACTIONS

In the circle put a greater than (>), less than (<) or equal (=) sign.
HINT: The fraction blocks on the previous page may help.

$\frac{1}{2} > \frac{1}{3}$ $\frac{2}{6} = \frac{1}{3}$ $\frac{3}{4} > \frac{2}{3}$

$\frac{1}{6} < \frac{1}{5}$ $\frac{2}{3} > \frac{3}{5}$ $\frac{2}{3} < \frac{8}{10}$

$\frac{1}{10} < \frac{1}{5}$ $1 > \frac{9}{10}$ $\frac{1}{3} = \frac{3}{9}$

Equivalent fractions are fractions that are the same.
Use the diagram to write down the equivalent fractions.

$\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{6}$ $\frac{6}{12}$ $\frac{5}{10}$

50

FRACTIONS

Half of $12 = $6

Half of $2.60 = $1.30

Quarter of 80c = 20c

Two fifths of $1 = 40c

Quarter of $6 = $1.50

51

MORE ARITHMETIC

30 + P 70 = 100

82 + I 7 = 89

50 + N 40 = 90

64 + G 26 = 90

40 + J 20 = 60

47 + M 13 = 60

80 − F 50 = 30

18 + O 3 = 21

50 − E 10 = 40

95 − Z 15 = 80

100 − S 30 = 70

80 − C 60 = 20

52

55 − K 25 = 30

33 + W 5 = 38

54 − L 8 = 46

68 − H 38 = 30

25 − A 17 = 8

76 − U 16 = 60

62 + R 4 = 66

29 + B 6 = 35

24 − T 12 = 12

45 + Y 9 = 54

53

Use your answers from the last two pages to match the letters and complete the jokes.

Doctor Doctor I think I'm a car!

JUST PARK YOURSELF

20 16 30 12 70 17 4 25 9 3 16 4 30 10 8 50

I'll be with you in a minute

Doctor Doctor I think I'm a dog!

THEN GET OFF THE COUCH

12 38 10 40 26 10 12 3 50 50 12 38 10 60 3 16 60 38

I'll be with you in a minute

54

Doctor Doctor I feel like a curtain!

PULL YOURSELF TOGETHER

70 16 8 8 9 3 16 4 30 10 8 50 12 3 26 10 12 38 10 4

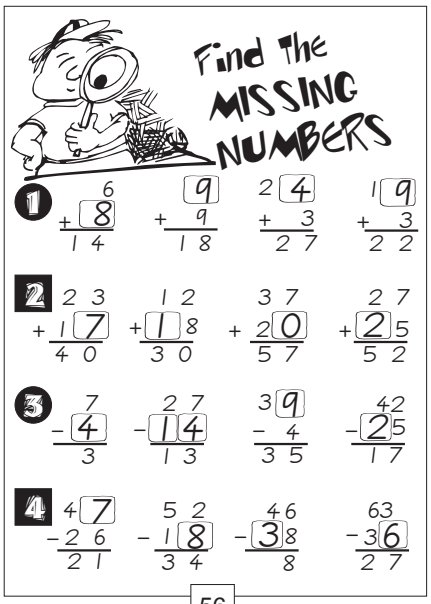
I'll be with you in a minute

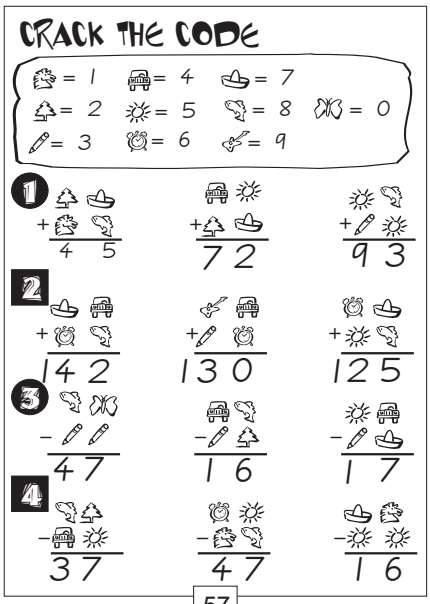
Doctor Doctor I only have 59 seconds to live!

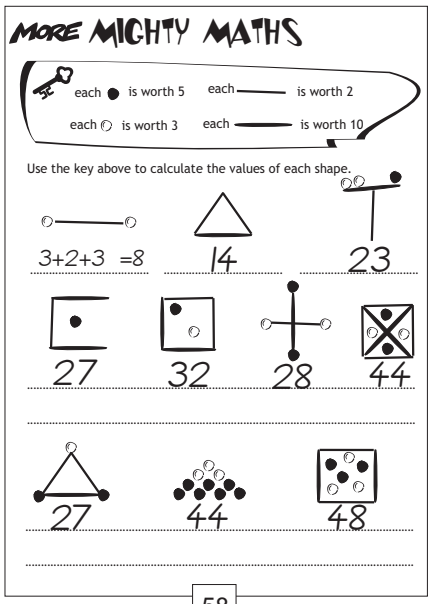
I'LL BE WITH YOU IN A MINUTE!

7 8 8 6 10 5 7 12 38 9 3 16 7 40 17 13 7 40 16 12 10

55





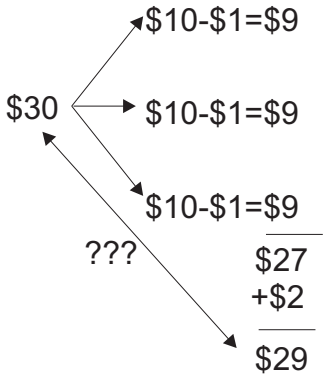


Here is an interesting conundrum called **The $30 Meal**

Three mathematicians share a meal at a restaurant and split the bill. The waiter charges them $30, and they pay $10 each. However, the waiter comes back afterwards and says he has overcharged them and the bill should have only been $25. Of the $5 they are owed, they agree to take $1 each and tip the waiter the remaining $2 to thank him for his honesty. They have now each paid $9 for the meal.

However: *They originally paid $30. They each end up paying $9. Three nines are $27, plus the $2 which the waiter received is $29.*

Where did the extra dollar go?



Mighty Math

MATURING MATHEMATICIAN for 7 - 9 year olds

Book 1: Sailing Into Mathematics

Builds an awareness of numbers and number relationships. It covers methods of multiplication, number patterns, ordinals and counting up to 1000, adding and subtracting strategies, fractions and money calculations. By the end of this book children will have more confidence when manipulating larger numbers.

Book 2: Sailing On With Mathematics

Introduces more number sequences, arithmetic strategies, measurement and fractions. By the end of this book children will have gained confidence with arithmetic and will recognize the value of each digit that makes up a number.

Book 3: Sailing Away With Mathematics

Reinforces all the work covered in the previous two Maturing Mathematician books. There are more arithmetic strategies, more fractions and more measurement. By the end of this book children will be confident in their ability to manipulate numbers.

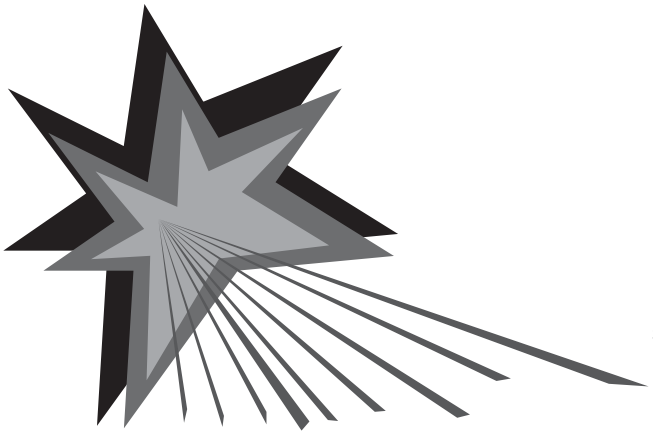
The MIGHTY MATH series is a structured, easy-to-follow series of fun activities designed to stimulate and challenge.

Beginner Mathematician (for 4 - 6 year olds), look for the RED books.

Developing Mathematician for (5 - 7 year olds), look for the YELLOW books.

Advancing Mathematician for (6 - 8 year olds), look for the BLUE books.

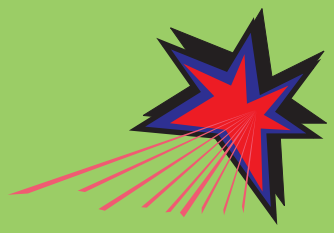
Maturing Mathematician for (7 - 9 year olds), look for the GREEN books.



MAHOBE

Give your children a powerful head start at school. Make sure any Math book that you purchase has the Mighty Math logo and is published by: Mahobe Resources (NZ) Ltd.

Are you looking to give your child a powerful head start at school?



Introduce your child to mathematics with Mighty Maths.

This is a structured, easy-to-follow series of fun activities designed to stimulate and challenge the advancing mathematician.

This book covers:

- number sequences
- arithmetic strategies
- measurement
- fractions

By the end of this book, children will have gained confidence with arithmetic and will recognize the value of each digit that makes up a number.

Choose Mighty Maths and observe a marked improvement in your child's mathematical ability. Success and confidence in mathematics will lead to an increase in motivation and an enjoyment of learning.

Mighty Maths reinforces the mathematics that children are studying at school. Study habits begin at home, complement school work and have an enormous impact on future academic achievement.

Mighty Maths

Maturing Mathematician
for 7 - 9 year olds
BOOK 2

ISBN 1-877216-88-7
9 781877 216886

MAHOBE