

Mighty Math



**National Curriculum
Standards Years 1 and 2**

Kim Freeman

What is Mighty Math?

Mighty Math is a series of workbooks designed to support the Math Curriculum. Each book is a culmination of many years teaching experience by the author. By using these books, students can practise and discover the mathematical concepts and principles that are essential for success in school mathematics. The following pages provide Year 1 and 2 students with both reinforcement and extension to their normal school mathematics lessons. This allows them to maintain the skills that they already have and helps to overcome any weaknesses. The pages can also complement school lessons, helping the student to develop faster in mathematics, and give them a "head start" in class.

The Mighty Math series covers all the strands and relevant age group levels of Mathematics in the New Zealand Curriculum: Number, Measurement, Geometry, Algebra, and Statistics. Within these strands, students will get practice at: calculating, estimating and using measuring equipment. We are sure that the work will fit into any mathematics curriculum.



If you use the sheets in this book often, or if you just find Mighty Math really useful then you might consider a donation. Send your money through PayPal: admin@mahobe.co.nz

MIGHTY MATHS - National Curriculum Standards for Year 1 and 2
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ISBN 9781877489198

THE NATIONAL CURRICULUM

The pages in this book are designed to support the New Zealand Mathematics Curriculum, the New Zealand Mathematics Standards and the New Zealand Numeracy Programme.

After **ONE** year at school, students should be achieving at Level 1 of the New Zealand Curriculum. Year 1 of the Mathematics Curriculum is focused mainly on number and the manipulation of small numbers. Students should be able to count to 10 and add, subtract and multiply numbers with totals up to 10. They should also be able to recognise shapes and compare lengths areas and capacities. Finally, they should be able to follow or give directions forward, back, turn left and turn right.

For a complete learning sequence then parents and teachers should purchase **Mighty Maths Beginner Mathematician for 4-6 year olds**. There are 4 books in this RED series and the books start with basic counting and writing numbers, simple addition through to more structured arithmetic. It is available through Mahobe.

The titles in the **RED Beginner Mathematician series** are:

Let's Learn to Count
Let's Use Numbers
Addition and Subtraction are Easy
Multiplication and Division are Fun.

After **TWO** years at school students will still be achieving at Level 1 however they should be able to count and manipulate numbers to 100. They should be able to continue number patterns based on ones, twos, fives and tens. They should also be able to compare different measures, complete simple transformations and represent simple statistical data in categories.

For a complete learning sequence for Year 2 then parents and teachers should purchase **Mighty Maths Developing Mathematician for 5-7 year olds**. There are 3 books in this YELLOW series. The books follow a structured learning sequence that starts by comparing smaller and larger numbers, teaches about bigger numbers up to 100 and focuses on the 1 to 5 times tables as well as the general arithmetic operations of addition and subtraction up to 100. After completing this series, students will have increased confidence in dealing with numbers.

The titles in the **YELLOW Developing Mathematician series** are:

Let's Look at Numbers
Let's Step up to Bigger Numbers
Let's Find all the Right Numbers

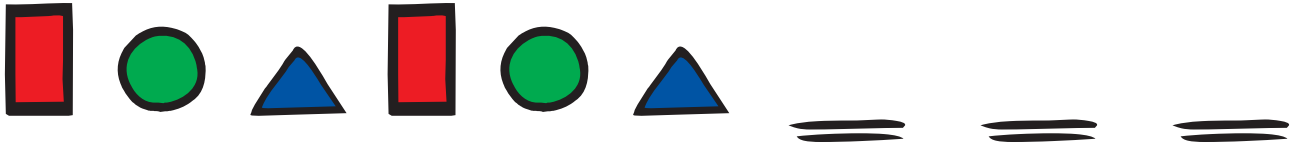
For older children look out for the:

BLUE Advancing Mathematician series (for 6-8 year olds),
GREEN Maturing Mathematician series (for 7-9 year olds),
ORANGE Master Mathematician series (for 8 - 10) year olds
and Mighty Math for 9-12 year olds.

You can be confident that you are covering all the right work when you use Mighty Math.

SHAPE SEQUENCES

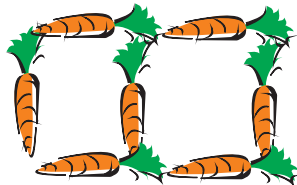
Continue the patterns by drawing the shapes that come next.



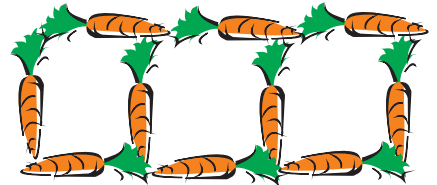
Help Chopper count the carrots in each.



==



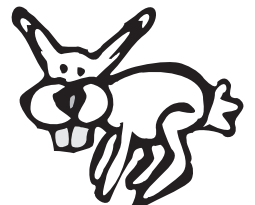
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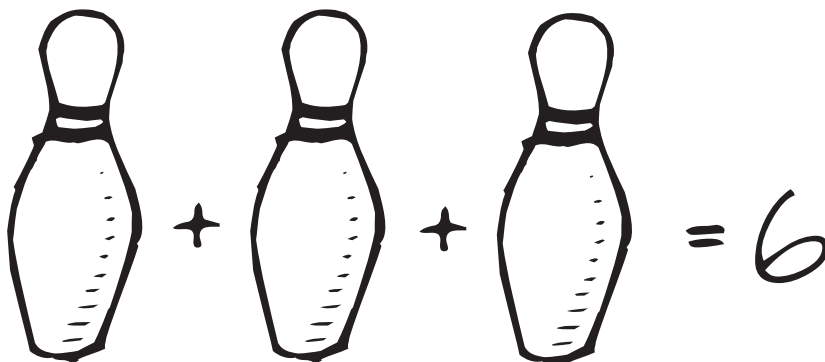
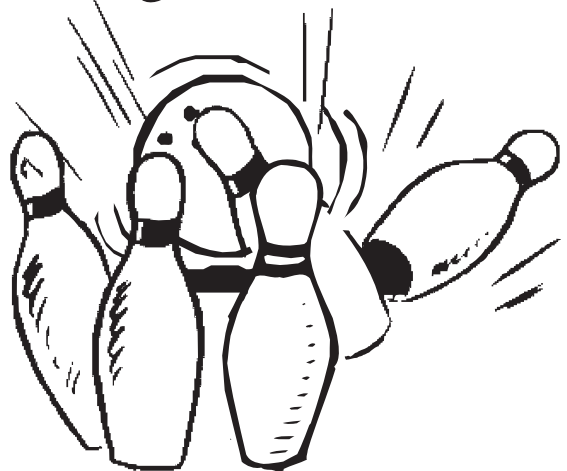
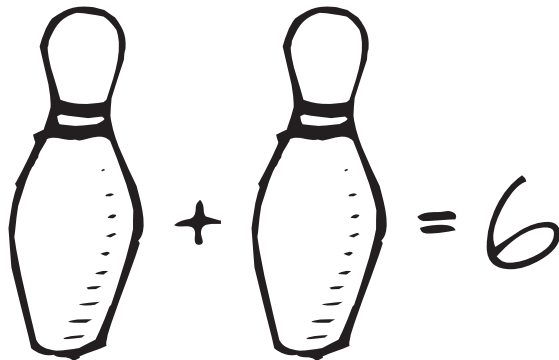
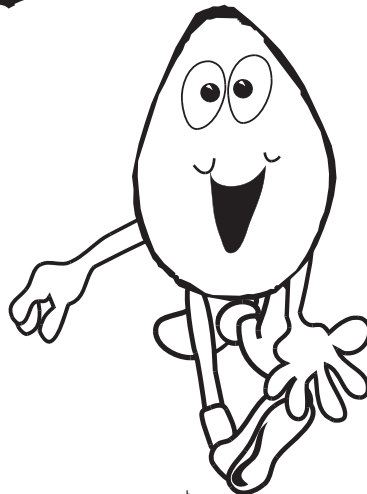
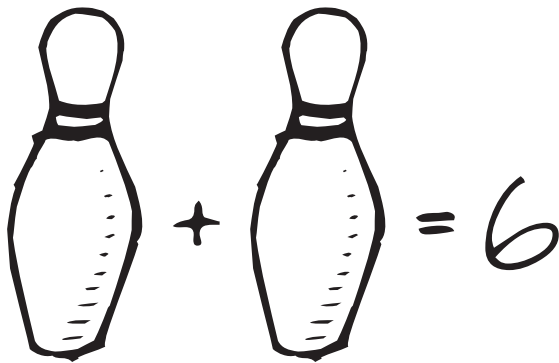
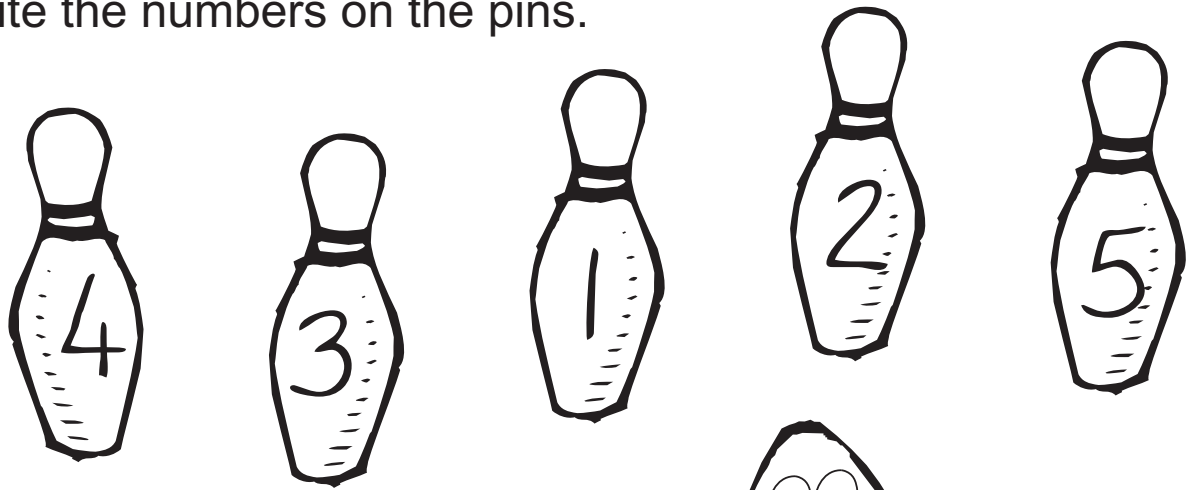
If Chopper continued the carrot squares, how many carrots would he need for the next set of squares?

==



FIVE PIN BOWLING

Which pins must Dennis knock over to score exactly 6?
Write the numbers on the pins.



ISBN 9781877489198

FIVE PIN BOWLING

Dennis is preparing for another bowl.

Find different ways: a. to score 7
b. to score 8



$$\text{pin} + \text{pin} = 7$$

$$\text{pin} + \text{pin} = 7$$

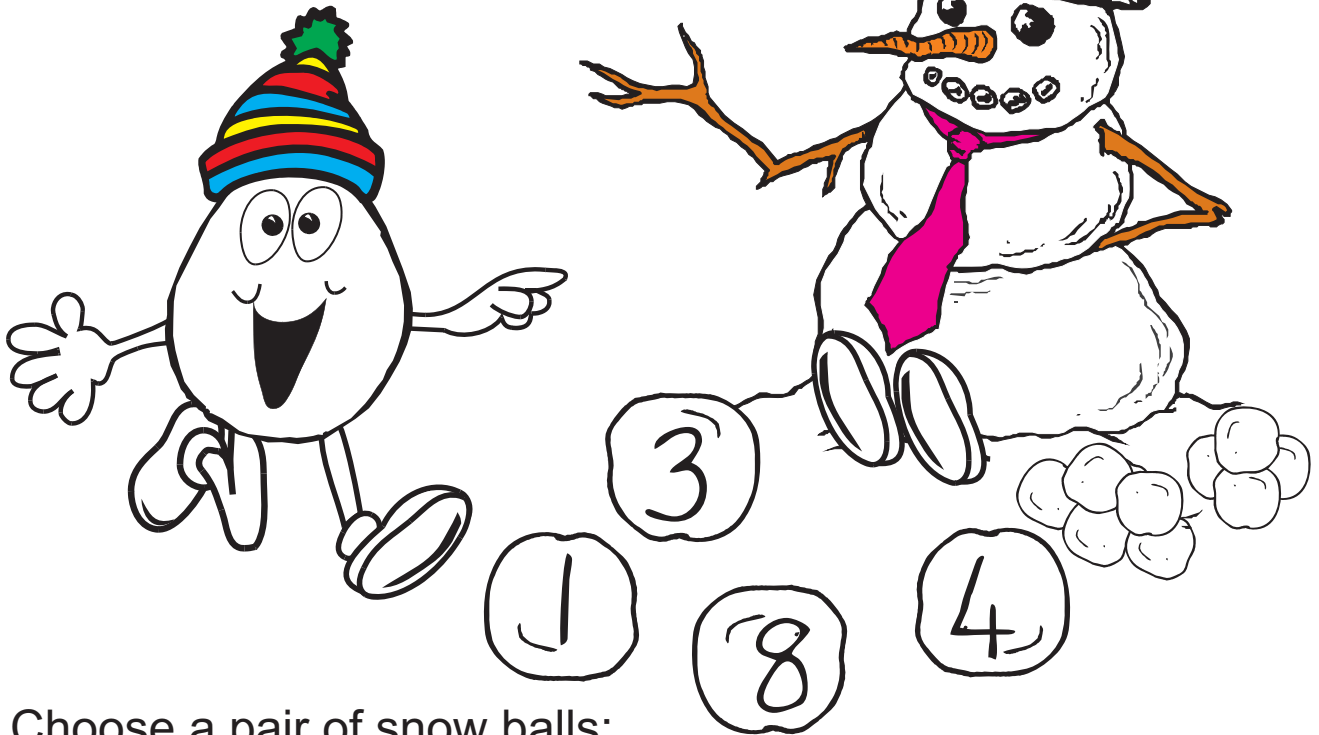
$$\text{pin} + \text{pin} + \text{pin} = 7$$

$$\text{pin} + \text{pin} = 8$$

$$\text{pin} + \text{pin} + \text{pin} = 8$$

Write the numbers on the pins.

SNOW BALL PAIRS



Choose a pair of snow balls:

Add the numbers on each snowball and write the answer.

$$\text{[Snowball]} + \text{[Snowball]} = \text{[]}$$

$$\text{[Snowball]} + \text{[Snowball]} = \text{[]}$$

$$\text{[Snowball]} + \text{[Snowball]} = \text{[]}$$

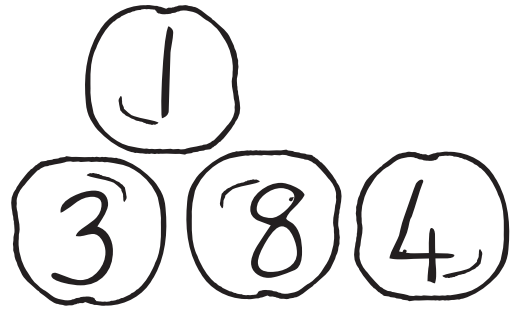
$$\text{[Snowball]} + \text{[Snowball]} = \text{[]}$$

$$\text{[Snowball]} + \text{[Snowball]} = \text{[]}$$

$$\text{[Snowball]} + \text{[Snowball]} = \text{[]}$$

ISBN 9781877489198

SNOW BALL SUBTRACTIONS



Choose a pair of snow balls:

Subtract the numbers on the snowballs and write the answer.

$\bigcirc - \bigcirc =$

 ○○○○○○○○○

$\bigcirc - \bigcirc =$

 ○○○○○○○○○

$\bigcirc - \bigcirc =$

 ○○○○○○○○○

$\bigcirc - \bigcirc =$

 ○○○○○○○○○

$\bigcirc - \bigcirc =$

 ○○○○○○○○○

$\bigcirc - \bigcirc =$

 ○○○○○○○○○

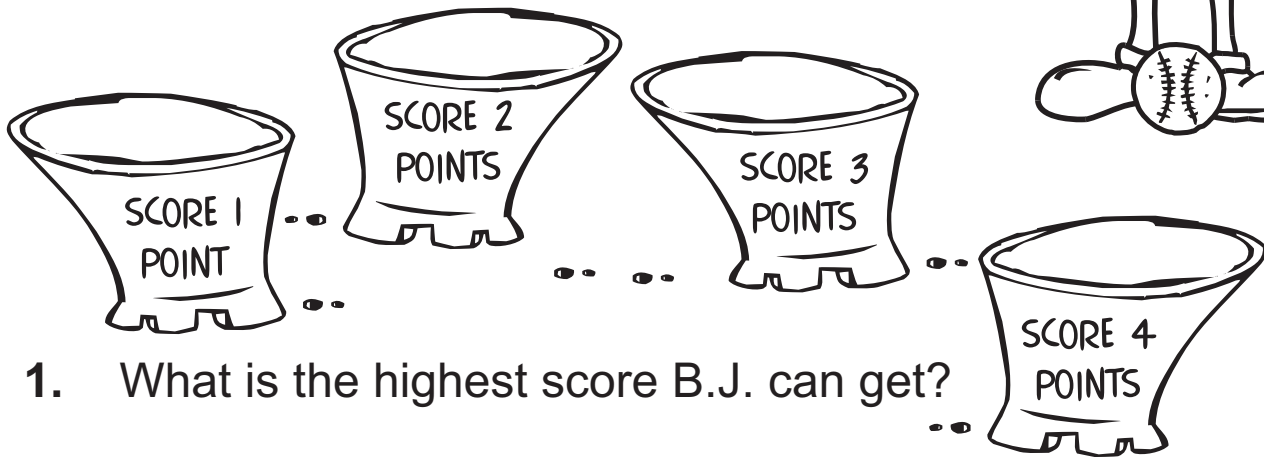
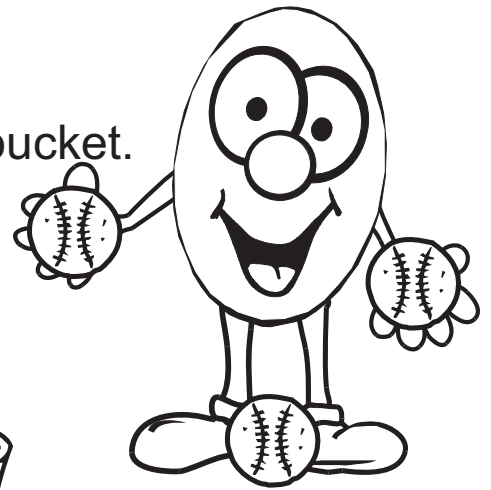


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BALLS IN A BUCKET

B.J. throws 3 balls. Each ball goes into a bucket.

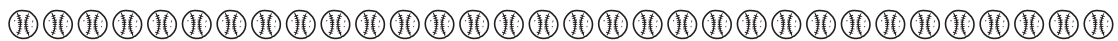
Sometimes more than one ball goes into the same bucket.



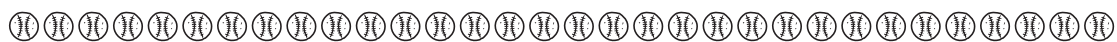
1. What is the highest score B.J. can get?



2. Find three ways to score 6.



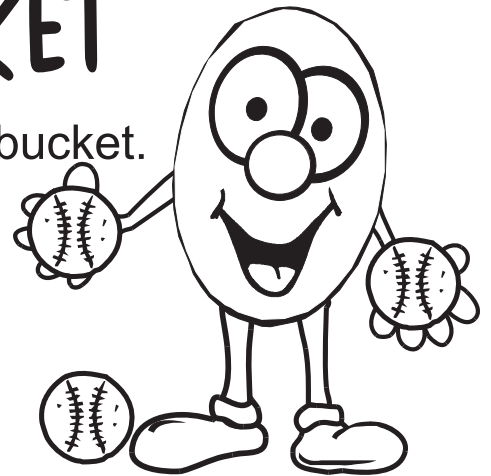
3. Find three ways to score 9.



3 BALLS IN A BUCKET

B.J. throws 3 balls. Each ball goes into a bucket.

Sometimes more than one ball goes into the same bucket.



Write all the ways to get these scores.

3



8



4



8



5



8



5



10



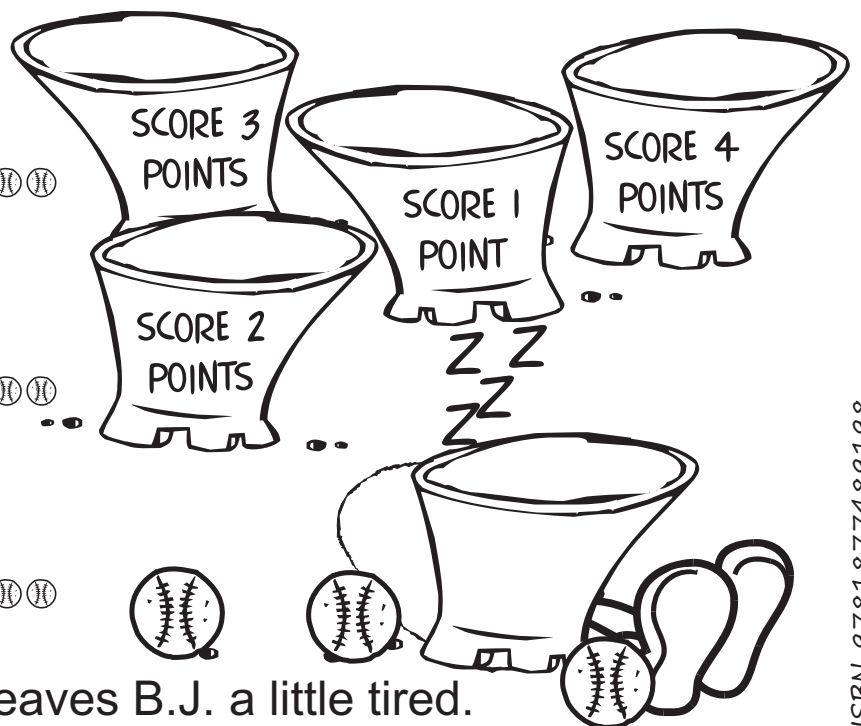
7



7



7



All this activity leaves B.J. a little tired.

HIDDEN SNAKES

Colour the numbers in order from 1 to 16. The first one is done for you. You will end up with 5 more snakes.

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

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

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

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

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

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

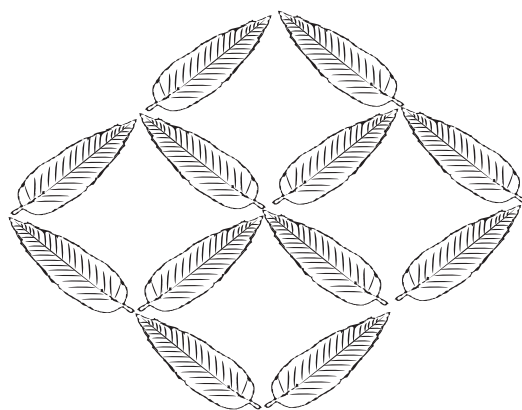
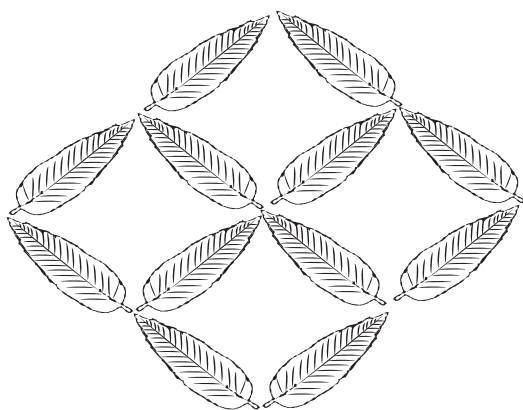
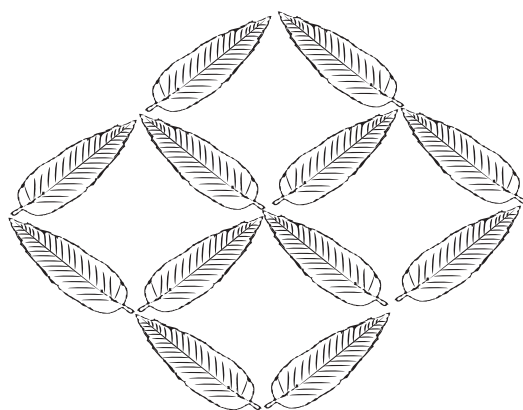
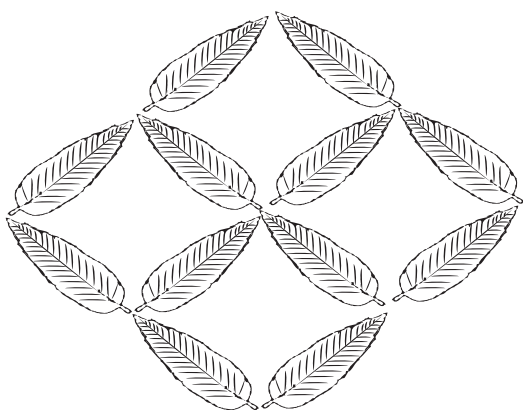
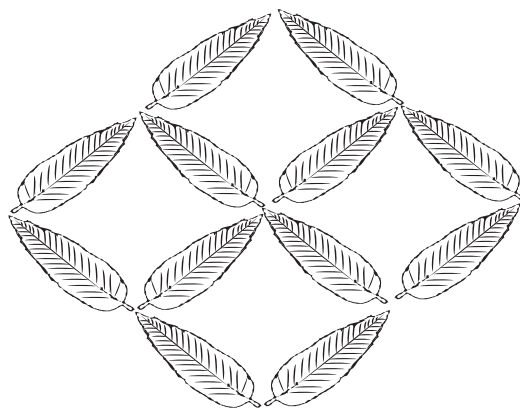
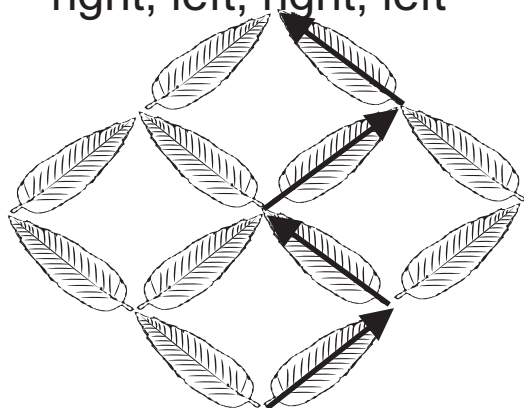
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CLIMB THE BEANSTALK

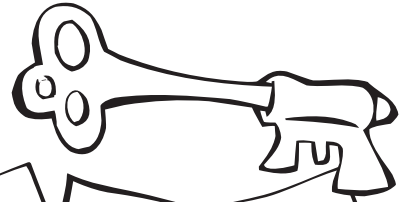
There are six ways of climbing the beanstalk.
The first is done for you.

Find the other five ways of climbing the beanstalk.

right, left, right, left

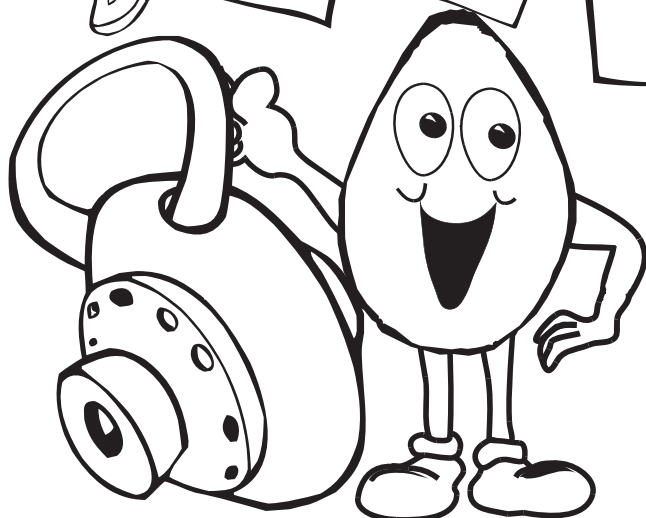
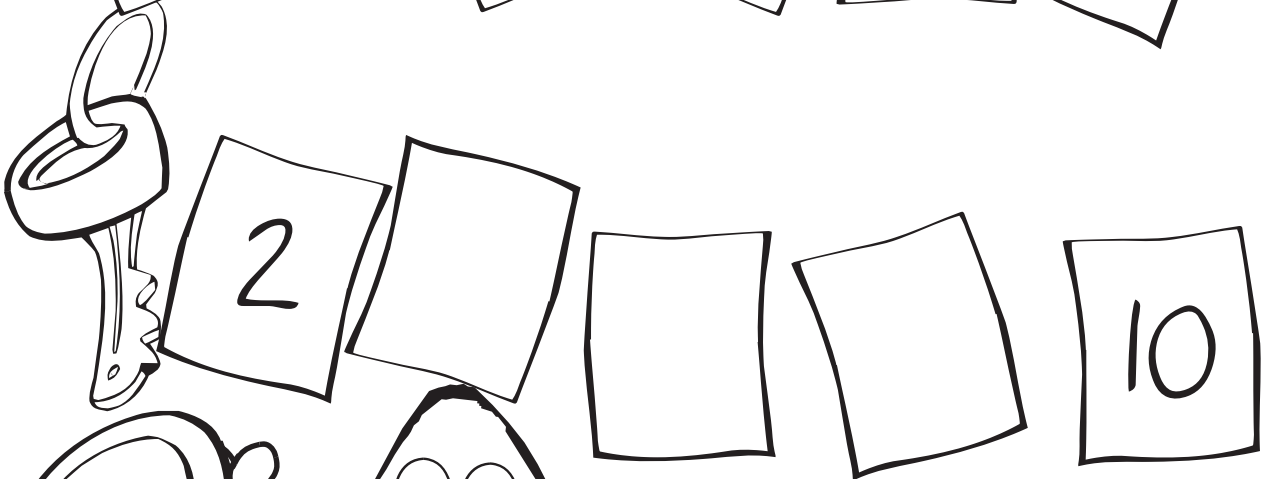
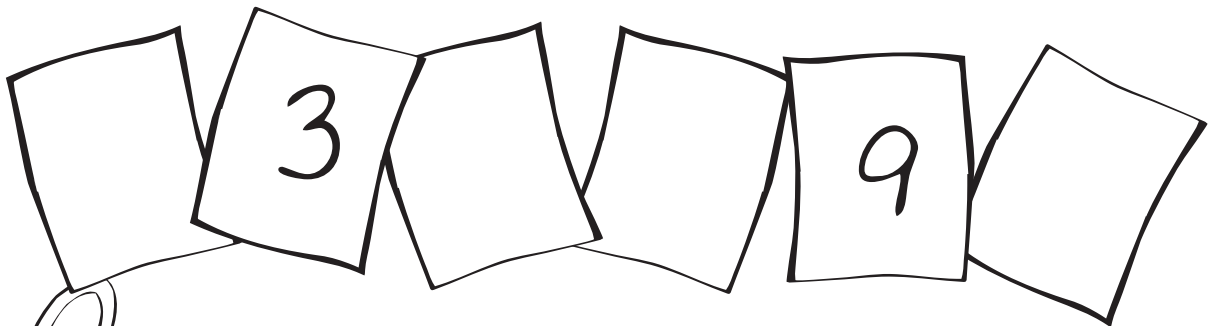
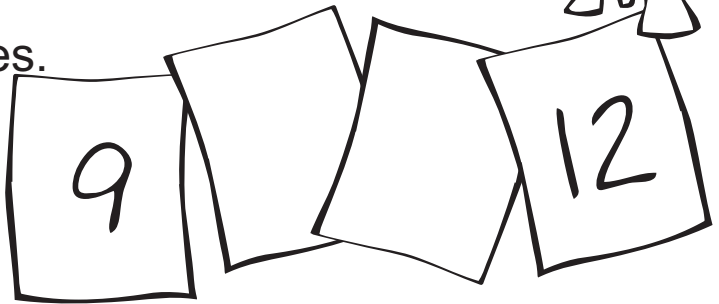


UNLOCK THE CODE



Solve the number sequences.

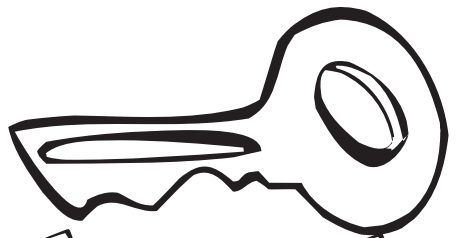
Fill in the missing numbers.



Dennis thinks that knowing numbers is the key to success in mathematics.

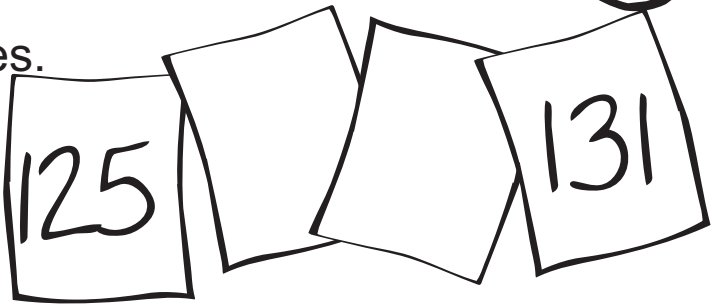


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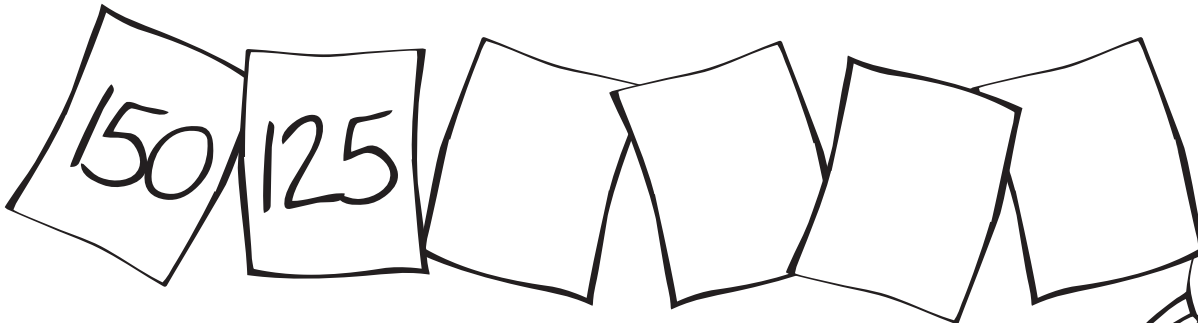


Solve the number sequences.

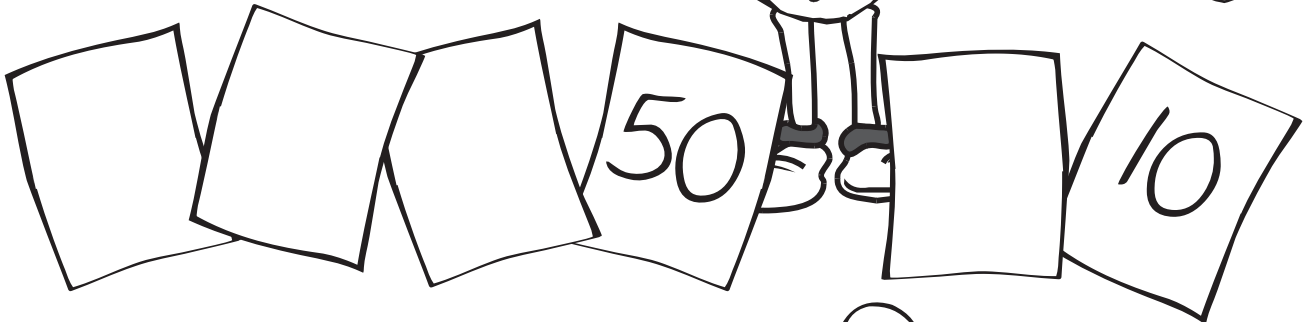
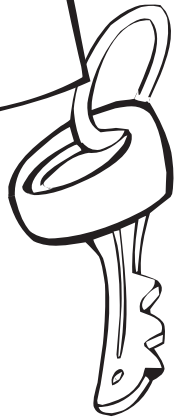
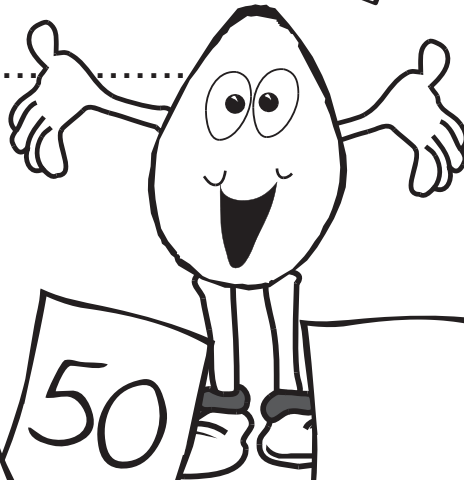
Fill in the missing numbers.
Write the rule beside each.



Rule =



Rule =



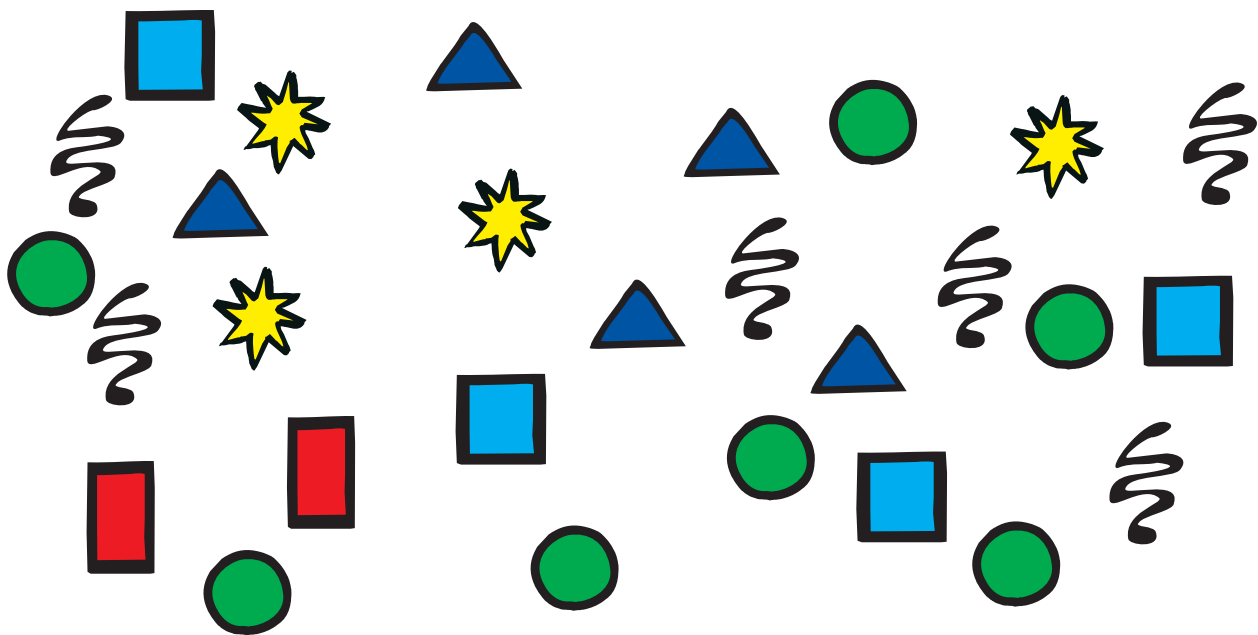
Rule =



Rule =



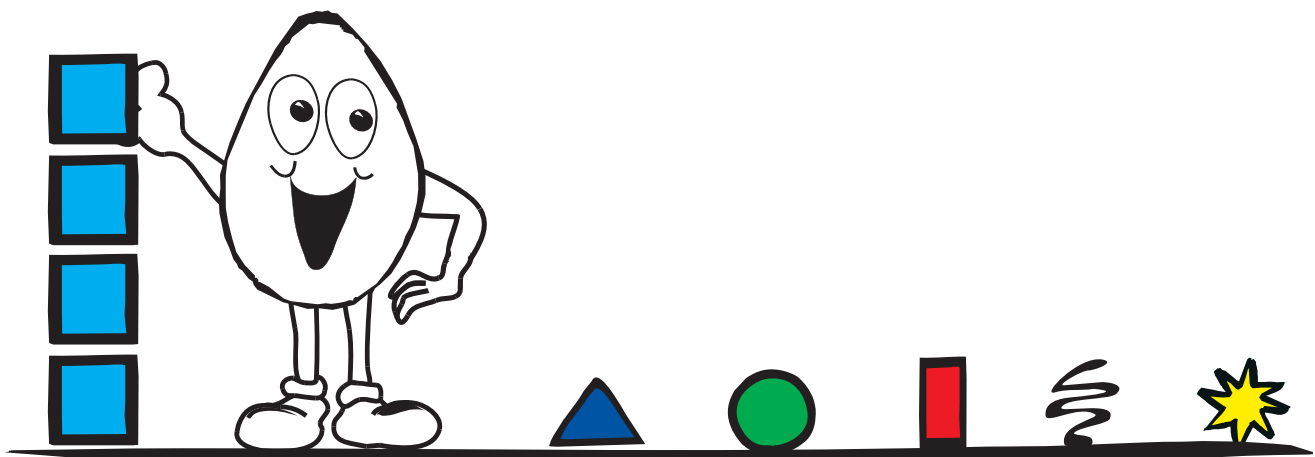
COUNTING ON STATISTICS



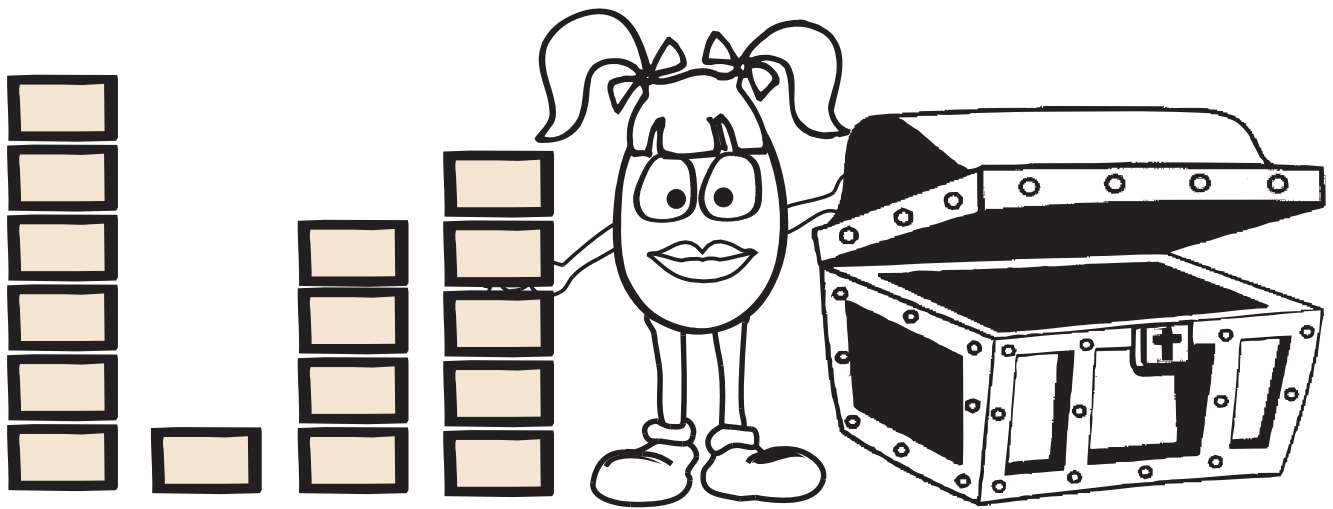
Can you help Dennis group all these shapes into some sort of order? He has finished the squares and started the triangles, circles, rectangles, squiggles and stars.

Which shape does he have the most of? _____

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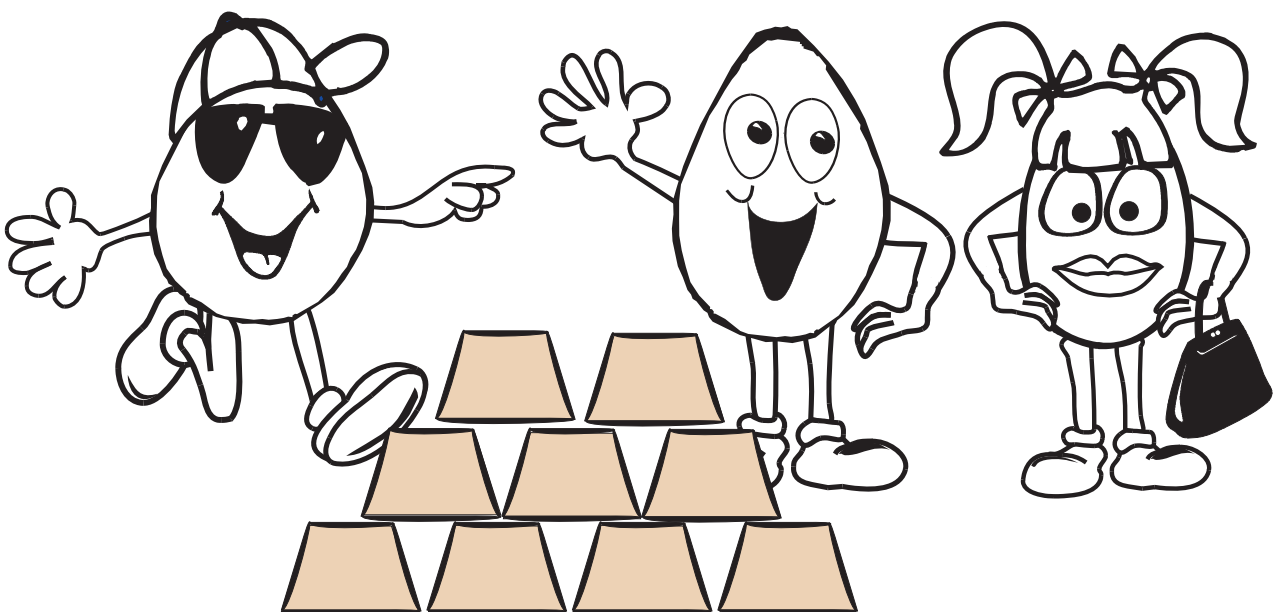


THE GOLD BAR CHALLENGE



Alicia has 4 piles of gold bars.
She can move one or more bars at a time.
She has to make all the piles the same height.
Alicia can make 4 equal piles in two moves.
How does she do it?

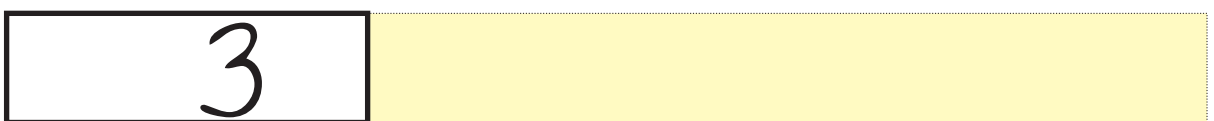
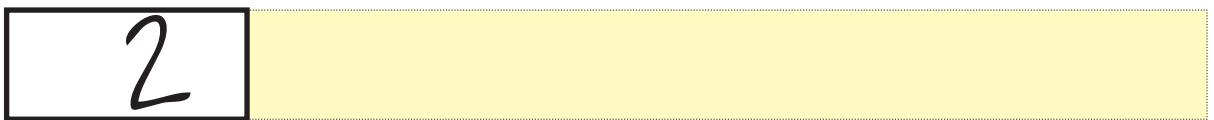
Below are 9 gold bars. If B.J., Dennis and Alicia each take the same number of gold bars, how many would each take?



FIND THE MISSING VALUES

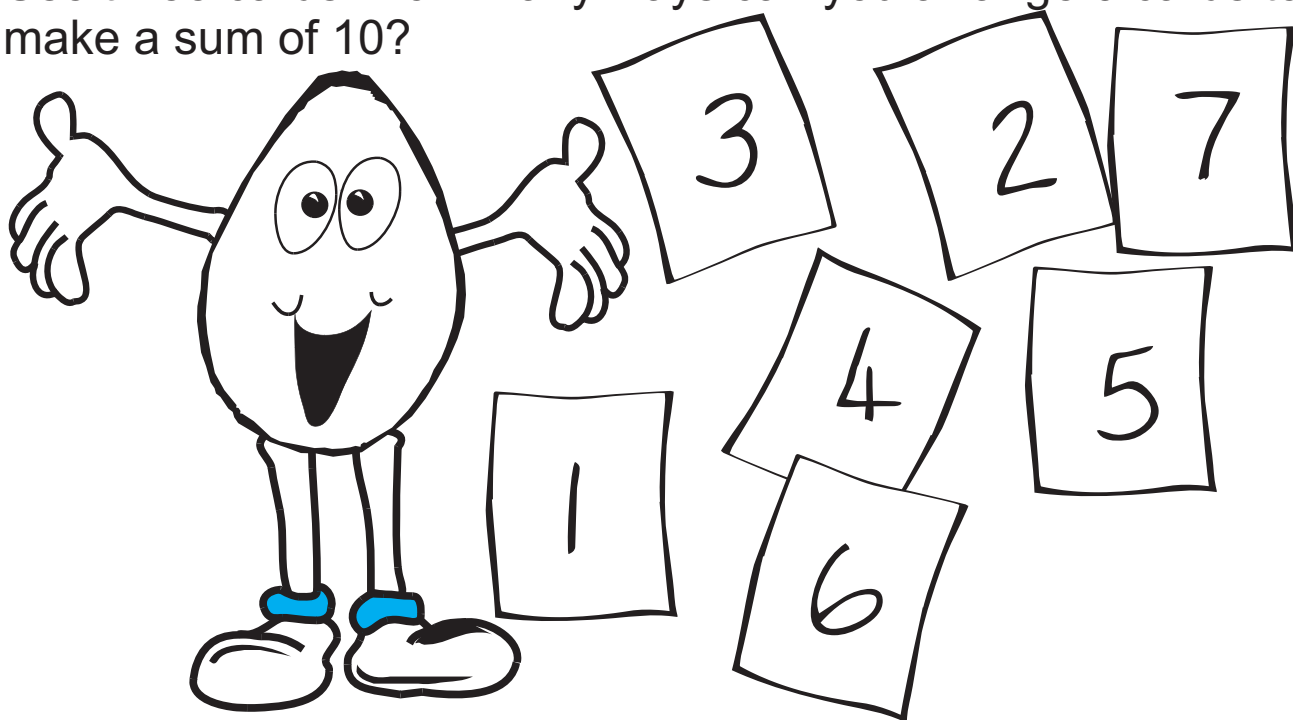
All the bars should add up to 10.

Write the value of each the missing shaded bars.



TEN

Use three cards. How many ways can you arrange 3 cards to make a sum of 10?



$$\square + \square + \square = 10$$

$$\square + \square + \square = 10$$

$$\square + \square + \square = 10$$

$$\square + \square + \square = 10$$

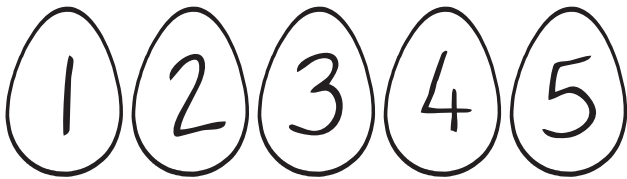
TWELVE

Colour three cards in each row that sum to equal 12.

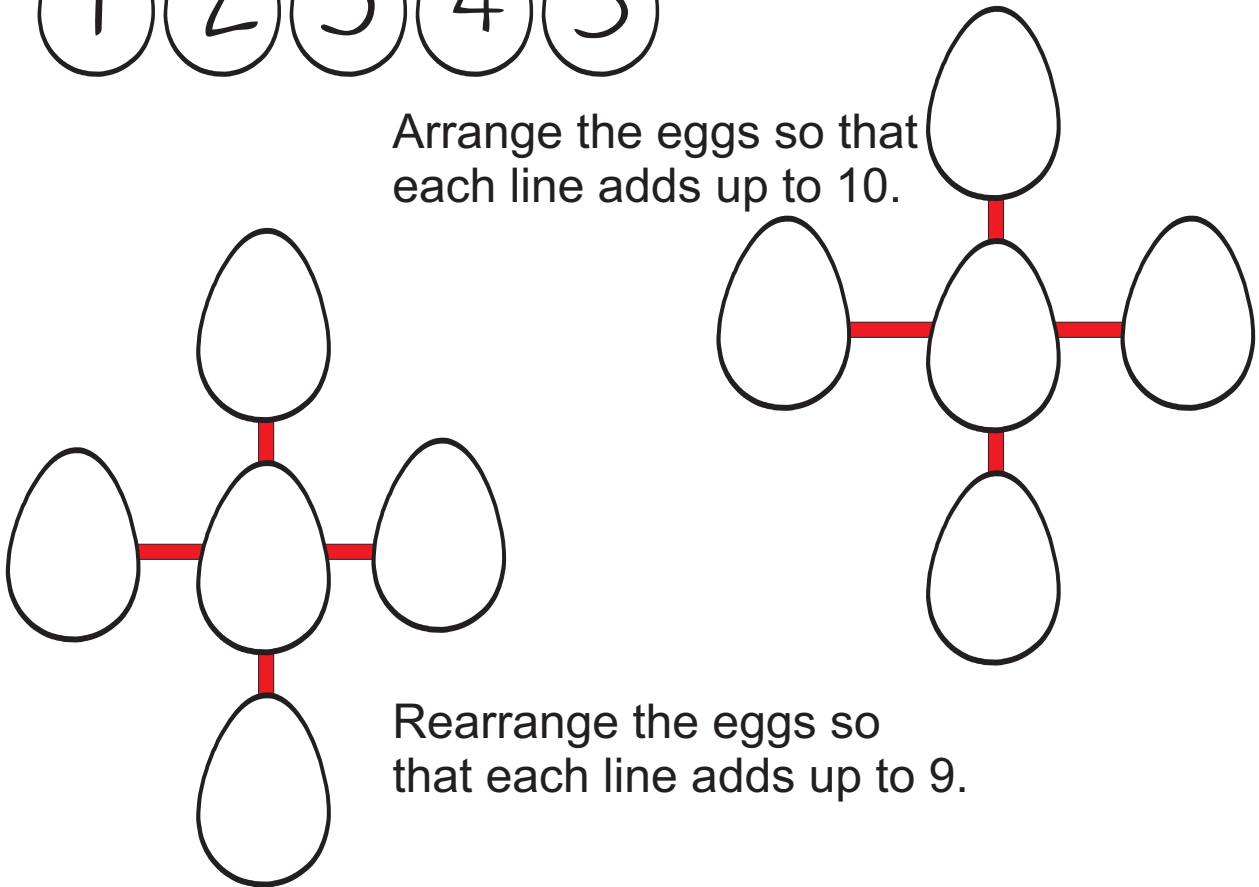


THE KIWI EGG CHALLENGE

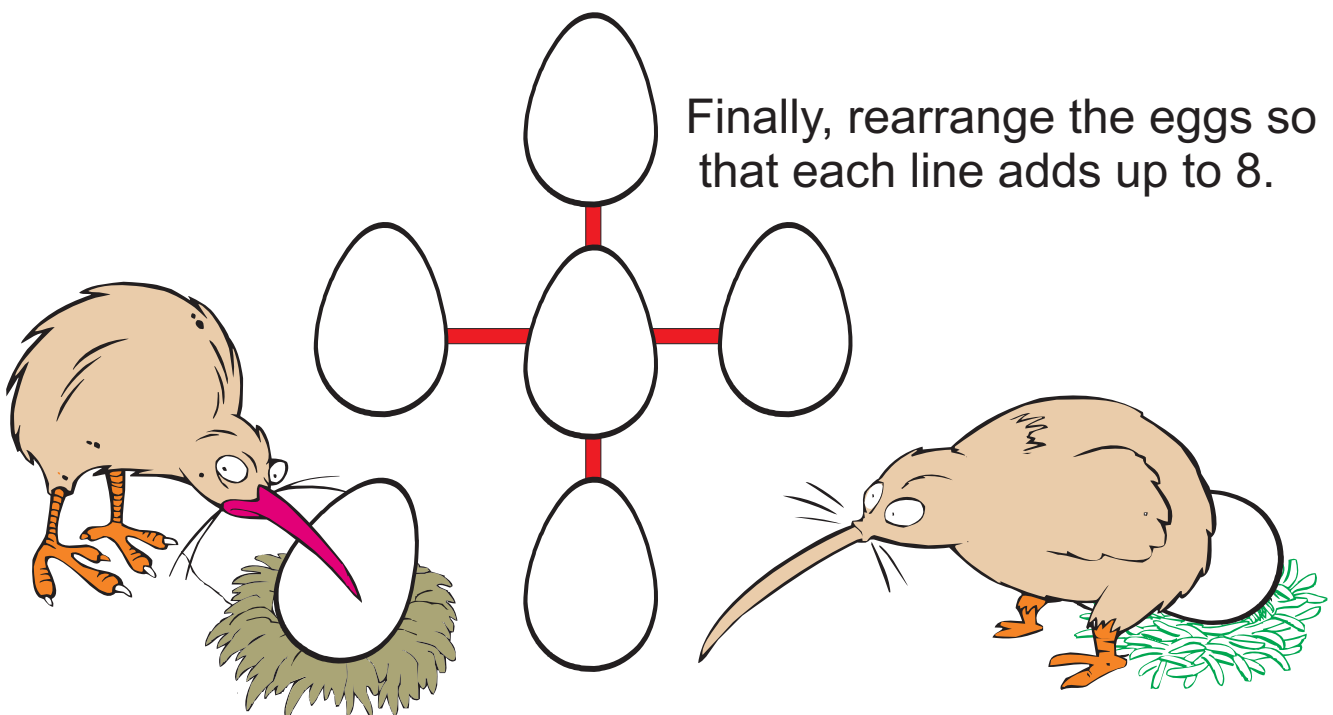
Each of the kiwi eggs below are numbered 1 to 5.



Arrange the eggs so that each line adds up to 10.

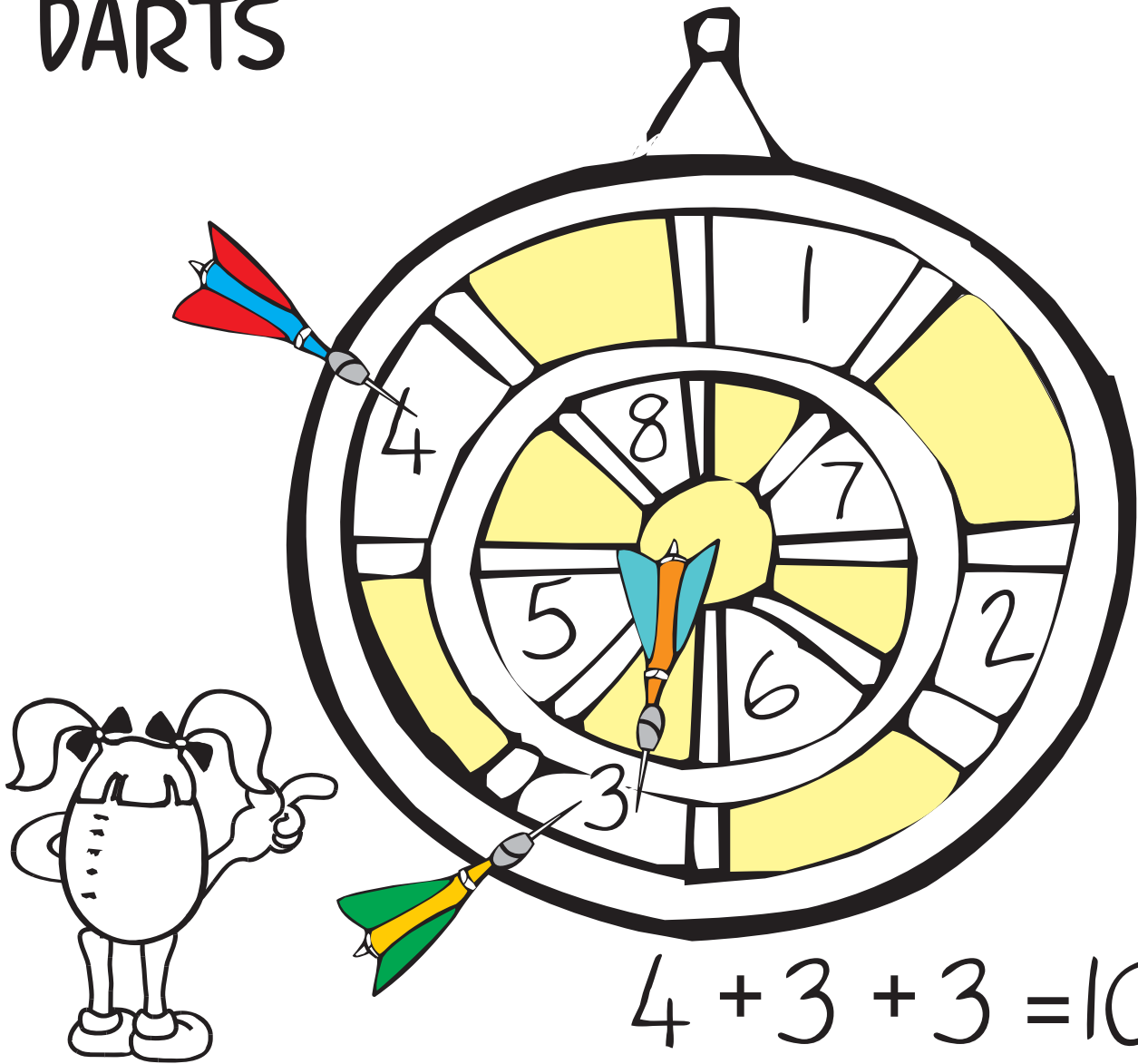


Rearrange the eggs so that each line adds up to 9.



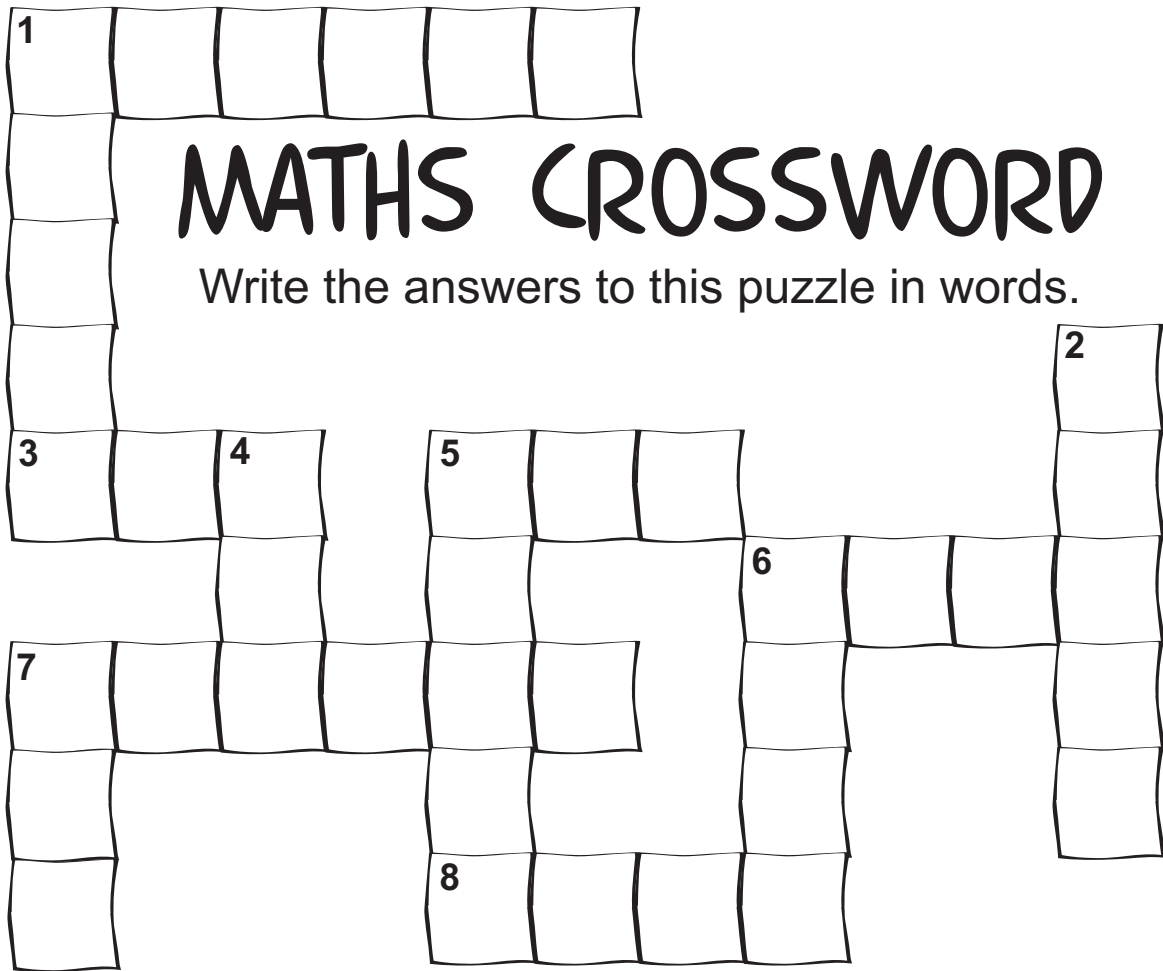
Finally, rearrange the eggs so that each line adds up to 8.

DARTS



You throw 3 darts and each sticks to a number.
How many ways can make a sum of 10?

$+$	$+$	$= 10$	$+$	$+$	$= 10$
$+$	$+$	$= 10$	$+$	$+$	$= 10$
$+$	$+$	$= 10$	$+$	$+$	$= 10$
$+$	$+$	$= 10$	$+$	$+$	$= 10$



MATHS CROSSWORD

Write the answers to this puzzle in words.

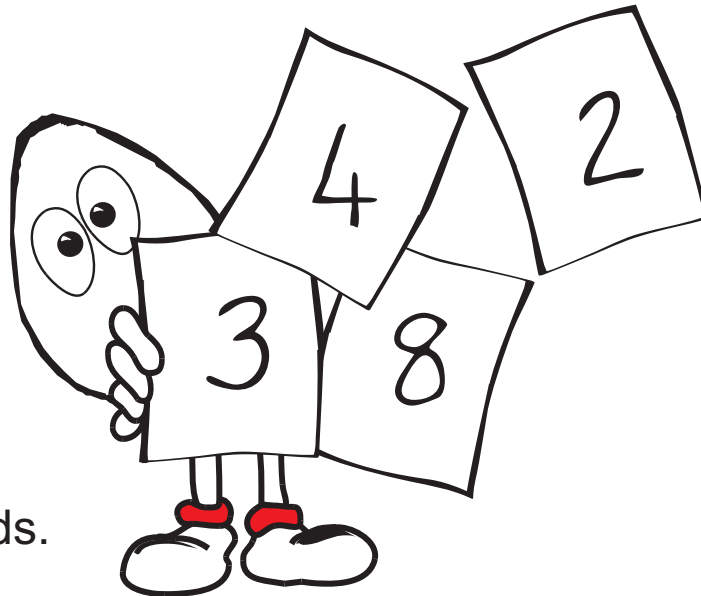
Across

1. $5 + 7 - 1$
3. $7 + 5 - 10$
5. $2 + 2 + 2$
6. $6 + 2 - 4$
7. $4 + 4 + 4$
8. $11 - 4 + 2$

Down

1. $2 + 2 + 4$
2. $11 - 8$
4. $1 + 1 - 1$
5. $9 + 2 - 4$
6. $8 + 4 - 7$
7. $3 + 5 + 2$

SUM UP



Dennis has four cards.

Make these totals from the cards.

$5 =$

$6 =$

$7 =$

$9 =$

$10 =$

$11 =$

$12 =$

$13 =$

$14 =$

$15 =$

Only use each card once within each sum.

NUMBER LINES

Make each line add up to 16.

3 2 5 ○
○ = 16 2
○ 3 1 ○

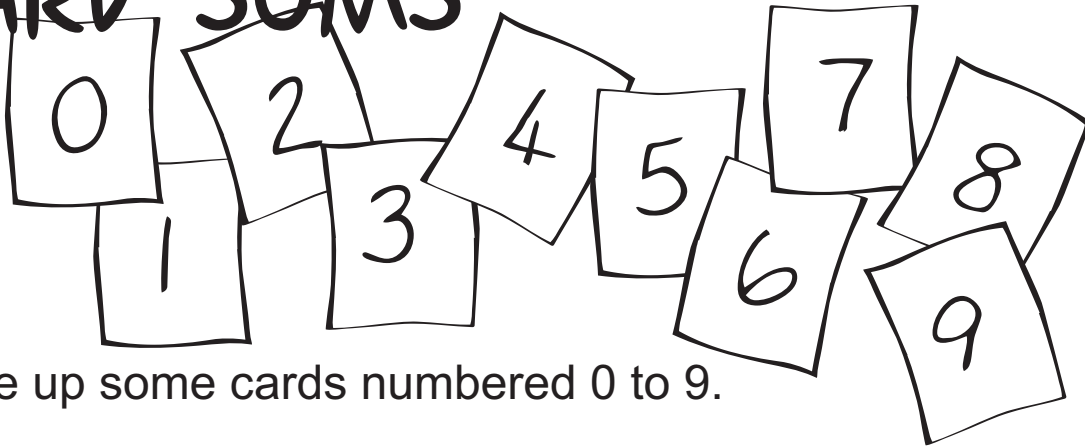
Make each line
add up to 18.

1 5 ○ 8
○ = 18 ○
10 ○ 2 4

○ ○ 2 5
10 = 20 ○
1 ○ 9 7

Make each line add up to 20.

CARD SUMS



Make up some cards numbered 0 to 9.

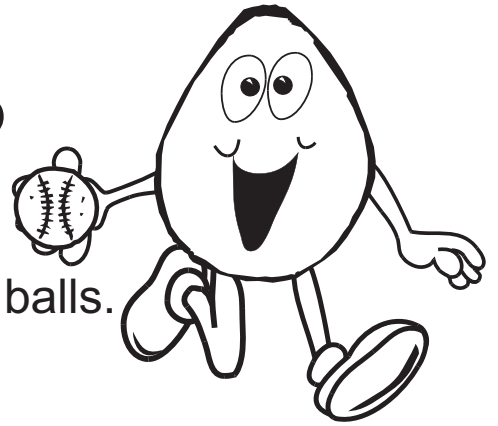
Pick three cards that sum to a total of 12.
There are 10 different ways.

1.		6.	
2.		7.	
3.		8.	
4.		9.	
5.		10.	

Pick four cards that have a sum of 12.
There are 9 different ways.

1.		6.	
2.		7.	
3.		8.	
4.		9.	
5.			

BUCKETS OF BALLS



Dennis has three buckets below.
Inside each bucket is an odd number of balls.
There are 19 balls in total.

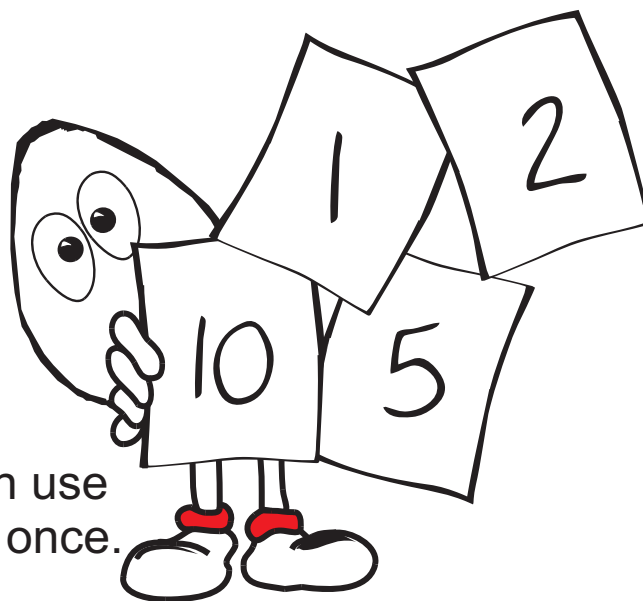
Write the possible number of balls in each bucket.

$$\text{Bucket 1} + \text{Bucket 2} + \text{Bucket 3} = 19$$



CARD SUMS

Dennis has four cards.
The cards are numbered:
1, 2, 5 and 10.



Make the totals below using
up to 3 of the numbers. You can use
any of the numbers more than once.

$3 =$ _____

$4 =$ _____

$5 =$ _____

$6 =$ _____

$7 =$ _____

$8 =$ _____

$9 =$ _____

$11 =$ _____

$12 =$ _____

$13 =$ _____

$14 =$ _____

$15 =$ _____

$16 =$ _____

$17 =$ _____

Is it possible to make these
sums using any 3 of the
numbers above?

10 18 19

TASK FORCE

Task 1: Write down 5 odd numbers less than 20.

Three of the numbers must have 2 digits and two of the numbers must have only 1 digit.

--	--	--	--	--

Task 2: Write the numbers in order from least to greatest.

--	--	--	--	--

Task 3: Write down 5 numbers less than 30.

Write beside each whether they are odd or even.

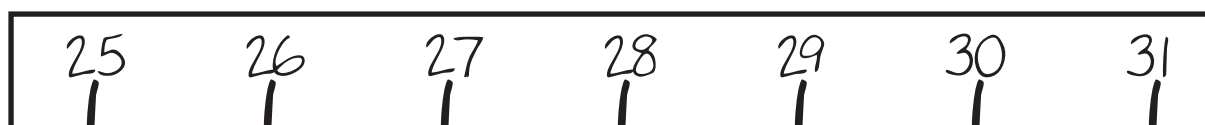
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Task 4: Write a number between 25 and 31. →

--

Is the number closer to 25 or 31?

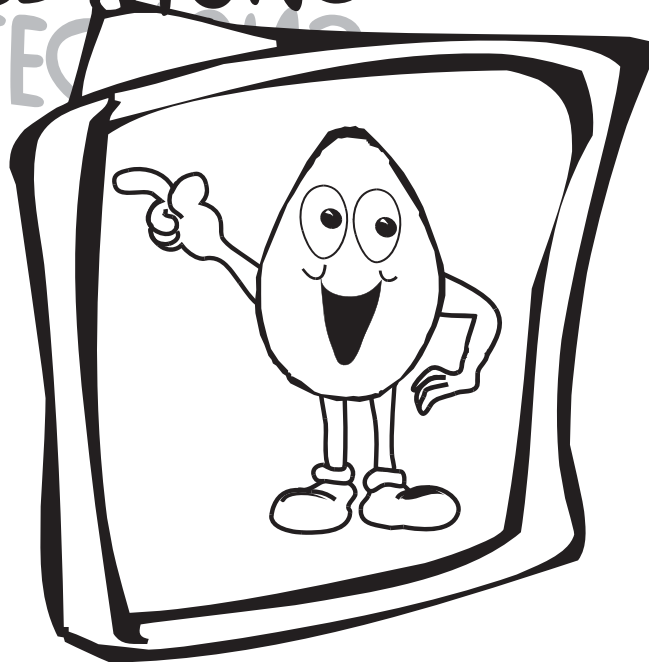
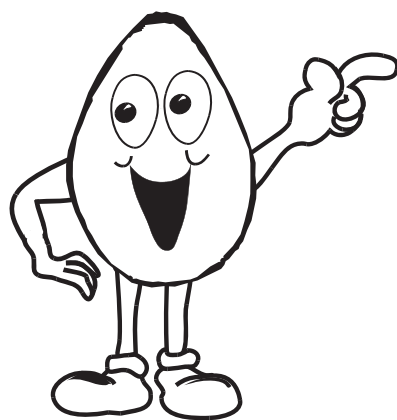
Show your answer on the number line below.



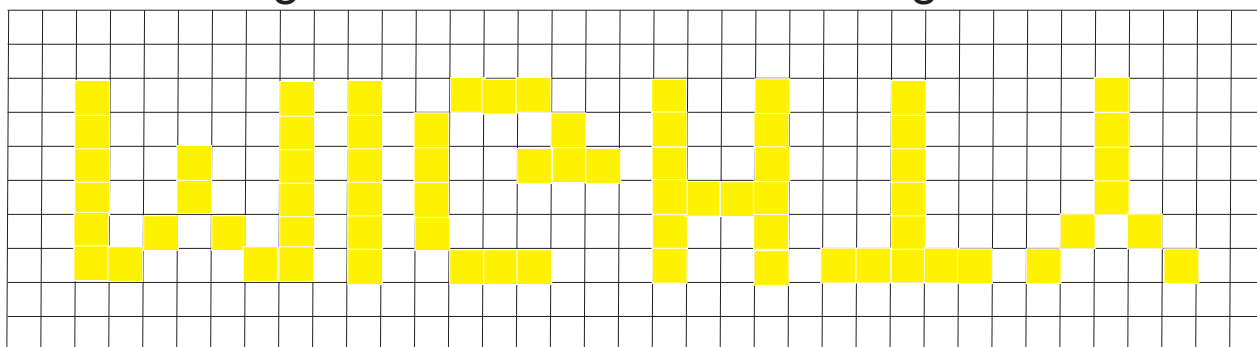
Task 5: What number is half way between 25 and 31?

Mark the number on the number line above.

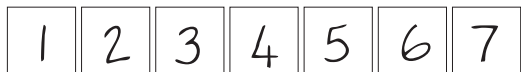
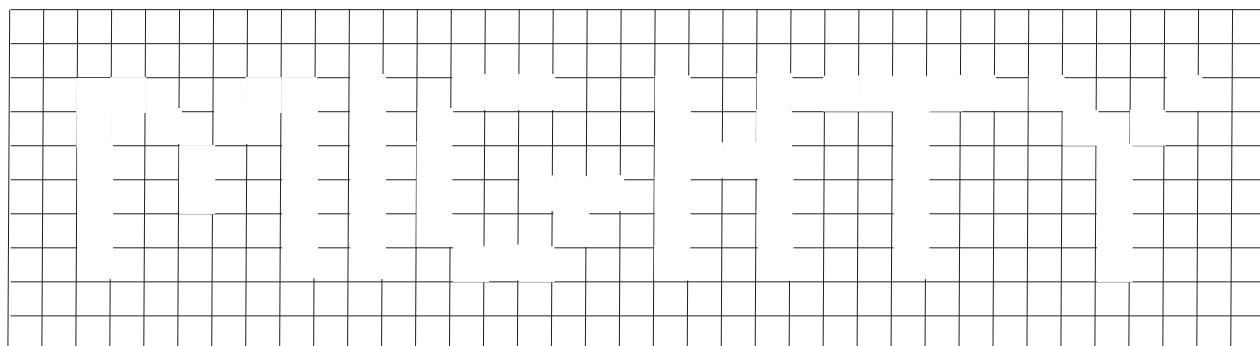
MIRRORED REFLECTIONS



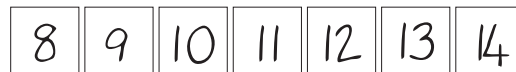
Put a mirror along the red mirror line. What do you see?
Colour in the mirror image of the top grid in each square
in the bottom grid to find the hidden message.



mirror line



mirror line



Which coloured cubes will go onto spaces 13 and 14?

UNITS
0

UNITS
1

UNITS
2

UNITS
3

UNITS
4

UNITS
5

UNITS
6

UNITS
7

UNITS
8

UNITS
9

TENS
0

TENS
10

TENS
20

TENS
30

TENS
40

TENS
50

TENS
60

TENS
70

TENS
80

TENS
90

HUNDREDS
0

HUNDREDS
100

HUNDREDS
200

HUNDREDS
300

HUNDREDS
400

HUNDREDS
500

HUNDREDS
600

HUNDREDS
700

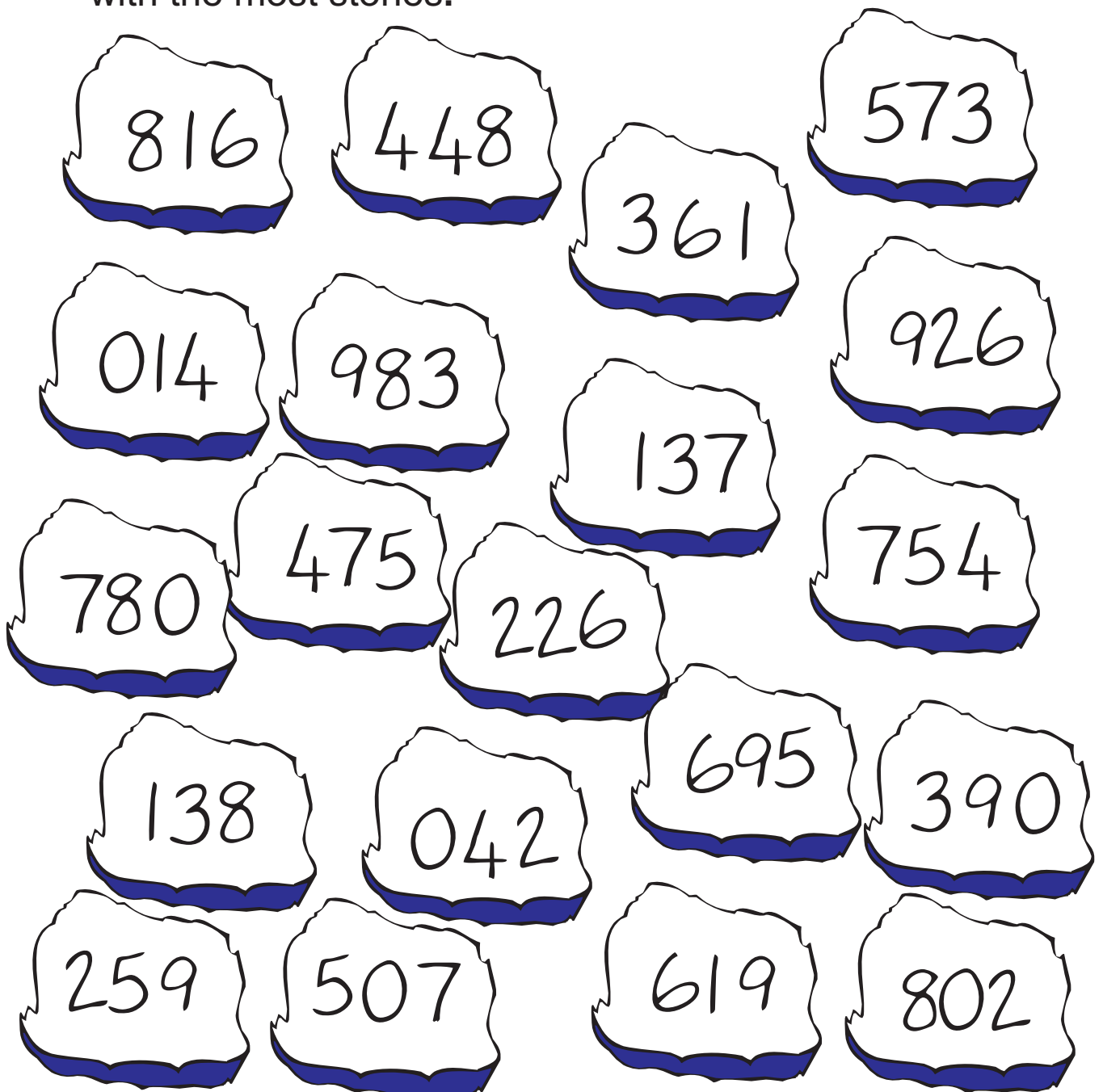
HUNDREDS
800

HUNDREDS
900

ISBN 9781877489198

DIGIT CARDS

1. Each player chooses a coloured pencil.
2. Shuffle the hundreds cards, tens cards and unit cards.
3. Players take turns to pick one hundreds card, one tens card and one units card. They can then cross out each of those digits on any **one** stone.
4. If a player crosses out the last digit on a stone then they can claim that stone by colouring it in their colour.
5. When all stones are coloured the winner is the player with the most stones.



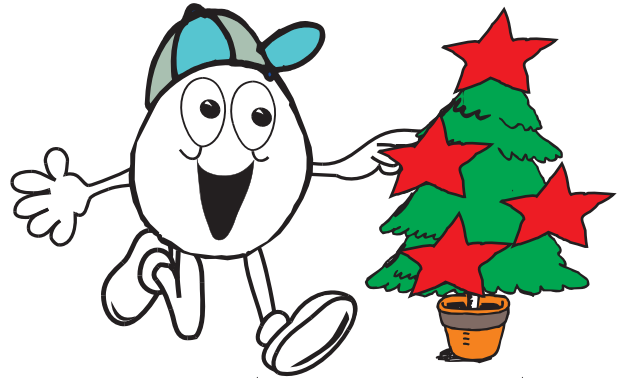
CHRISTMAS DELIGHTS

Dennis has 16 Christmas trees to decorate.

He has put 4 stars on each tree.

He can colour the stars RED or BLUE.

Show all the different ways that Dennis can colour the four stars. He has coloured the first tree all red.



SHAPE SEQUENCES

Continue the patterns by drawing the shapes that come next.



Help Chopper count the carrots in each.



4



7



10

If Chopper continued the carrot squares, how many carrots would he need for the next set of squares?

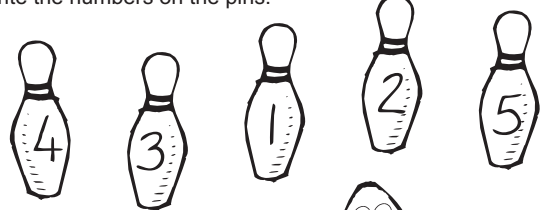
13



ISBN 9781877489198

FIVE PIN BOWLING

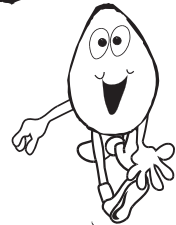
Which pins must Dennis knock over to score exactly 6? Write the numbers on the pins.



$5 + 1 = 6$

$4 + 2 = 6$

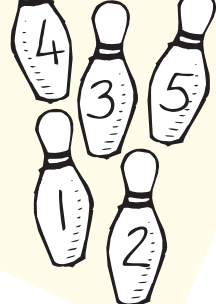
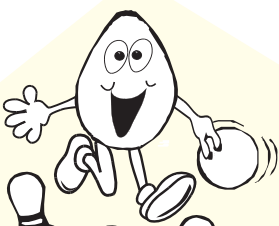
$3 + 2 + 1 = 6$



FIVE PIN BOWLING

Dennis is preparing for another bowl.

Find different ways: a. to score 7
b. to score 8



$5 + 2 = 7$

$4 + 3 = 7$

$4 + 2 + 1 = 7$

$5 + 3 = 8$

$4 + 3 + 1 = 8$

Write the numbers on the pins.

SNOW BALL PAIRS



Choose a pair of snow balls:

Add the numbers on each snowball and write the answer.

$1 + 3 = 4$

$3 + 8 = 11$

$1 + 8 = 9$

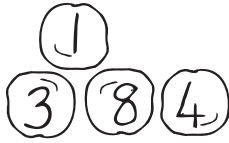
$3 + 4 = 7$

$1 + 4 = 5$

$4 + 8 = 12$

SNOW BALL SUBTRACTIONS

Choose a pair of snow balls:



Subtract the numbers on the snowballs and write the answer.

$$8 - 4 = 4$$

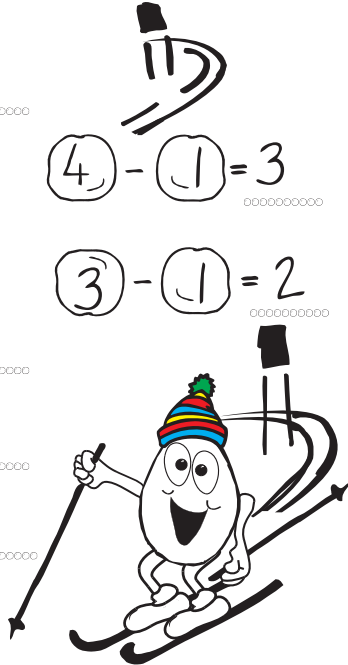
$$4 - 1 = 3$$

$$8 - 3 = 5$$

$$3 - 1 = 2$$

$$8 - 1 = 7$$

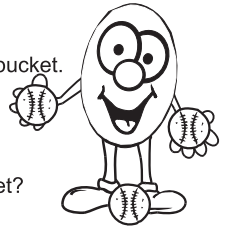
$$4 - 3 = 1$$



BALLS IN A BUCKET

B.J. throws 3 balls. Each ball goes into a bucket.

Sometimes more than one ball goes into the same bucket.



1. What is the highest score B.J. can get?

12 3 balls in 4



2. Find three ways to score 6.

1 ball in 4, 2 balls in 1



1 ball in 1, 1 ball in 2, 1 ball in 3



3 balls in 2



3. Find three ways to score 9.

1 ball in 1, 2 balls in 4



1 ball in 2, 1 ball in 3, 1 ball in 4



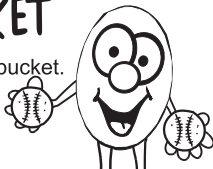
3 balls in 3



3 BALLS IN A BUCKET

B.J. throws 3 balls. Each ball goes into a bucket.

Sometimes more than one ball goes into the same bucket.



Write all the ways to get these scores.

3 3 balls in 1

8 1 ball in 4

4 2 balls in 1

8 1 ball in 2

5 2 balls in 1

8 2 balls in 3

5 1 ball in 3

8 1 ball in 1

5 1 ball in 1

10 1 ball in 2

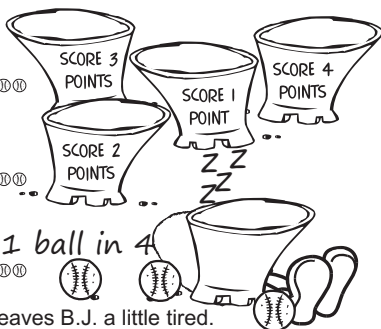
7 2 balls in 2

10 2 balls in 4

7 1 balls in 3

7 1 ball in 1

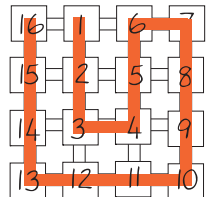
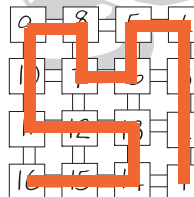
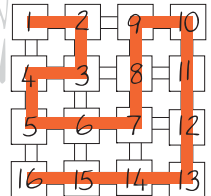
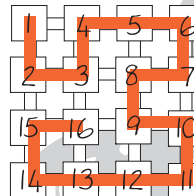
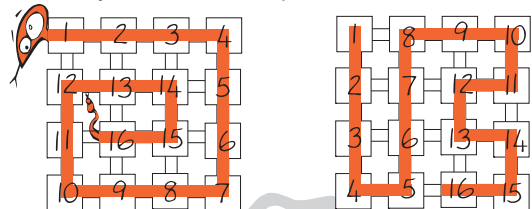
7 1 ball in 2, 1 ball in 4



All this activity leaves B.J. a little tired.

HIDDEN SNAKES

Colour the numbers in order from 1 to 16. The first one is done for you. You will end up with 5 more snakes.

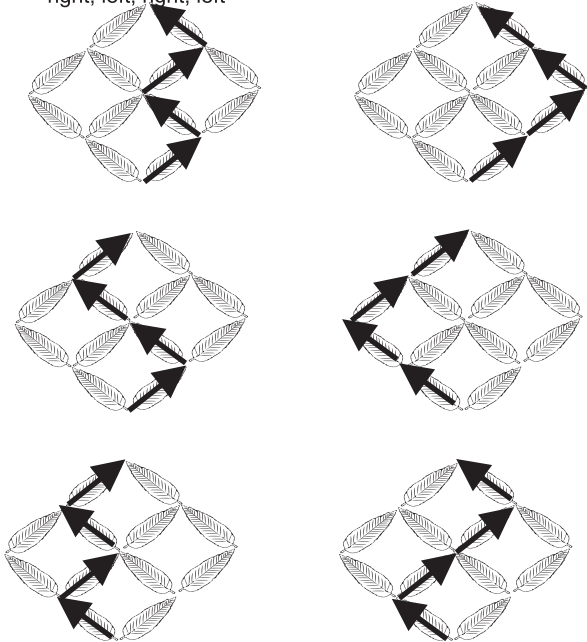


CLIMB THE BEANSTALK

There are six ways of climbing the beanstalk. The first is done for you.

Find the other five ways of climbing the beanstalk.

right, left, right, left

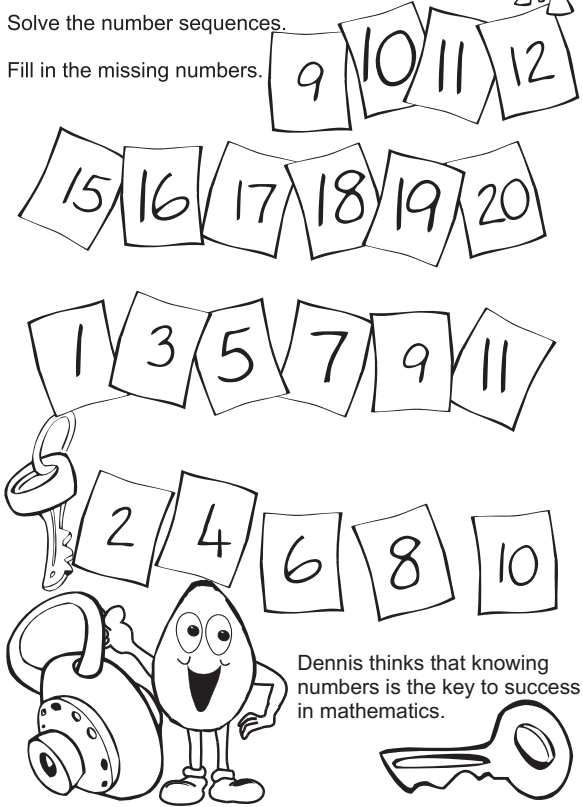


UNLOCK THE CODE



Solve the number sequences.

Fill in the missing numbers.



Dennis thinks that knowing numbers is the key to success in mathematics.

UNLOCK THE CODE

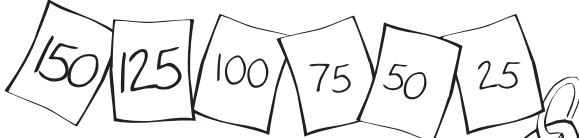


Solve the number sequences.

Fill in the missing numbers. Write the rule beside each.



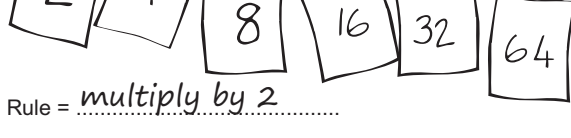
Rule = add 2



Rule = subtract 25

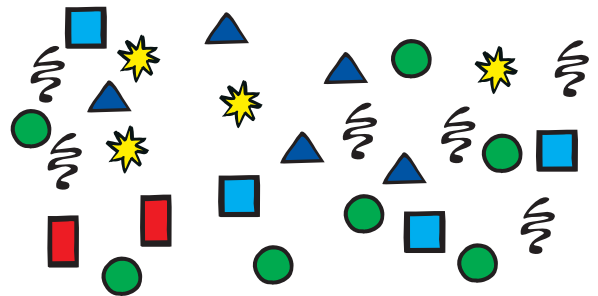


Rule = subtract 20



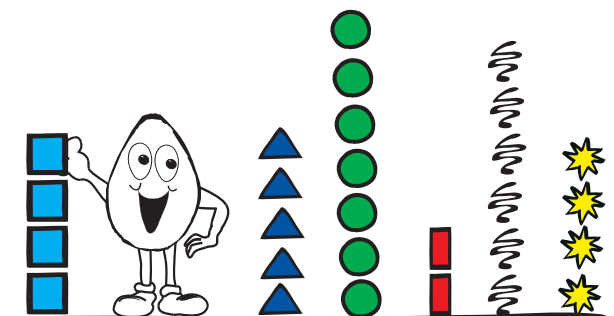
Rule = multiply by 2

COUNTING ON STATISTICS

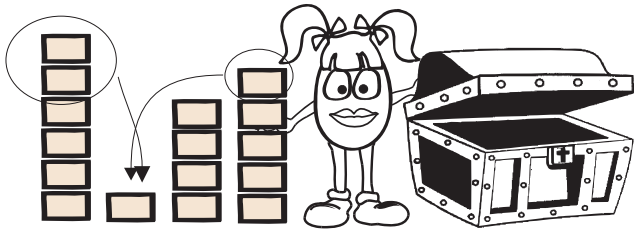


Can you help Dennis group all these shapes into some sort of order? He has finished the squares and started the triangles, circles, rectangles, squiggles and stars.

Which shape does he have the most of? circles

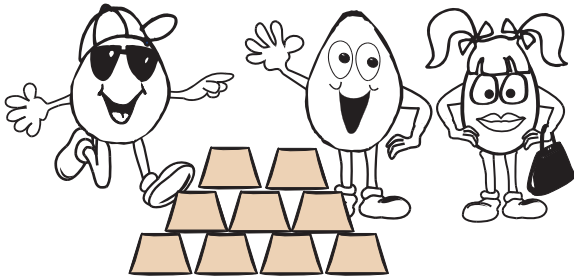


THE GOLD BAR CHALLENGE



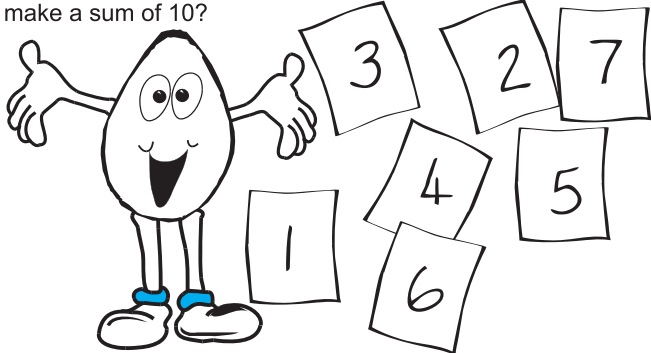
Alicia has 4 piles of gold bars.
 She can move one or more bars at a time.
 She has to make all the piles the same height.
 Alicia can make 4 equal piles in two moves.
 How does she do it?

Below are 9 gold bars. If B.J., Dennis and Alicia each take the same number of gold bars, how many would each take?
 3 gold bars each



TEN

Use three cards. How many ways can you arrange 3 cards to make a sum of 10?



$$1 + 2 + 7 = 10$$

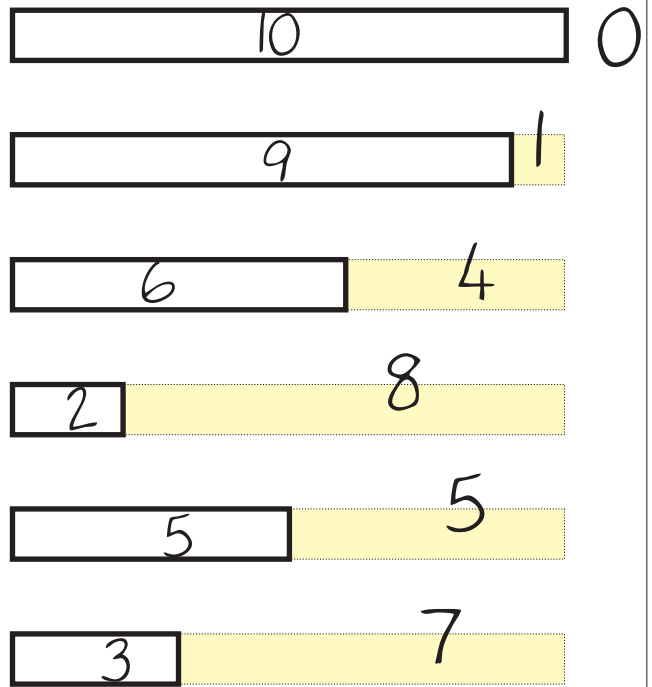
$$2 + 3 + 5 = 10$$

$$1 + 3 + 6 = 10$$

$$1 + 4 + 5 = 10$$

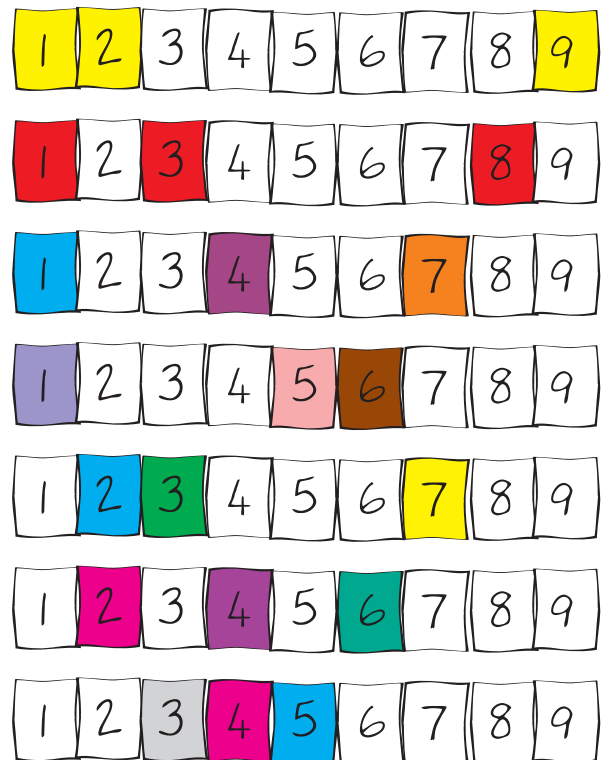
FIND THE MISSING VALUES

All the bars should add up to 10.
 Write the value of each the missing shaded bars.



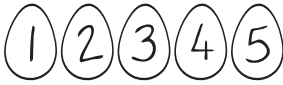
TWELVE

Colour three cards in each row that sum to equal 12

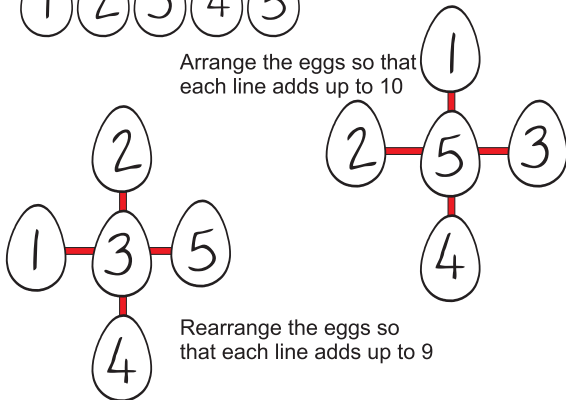


THE KIVI EGG CHALLENGE

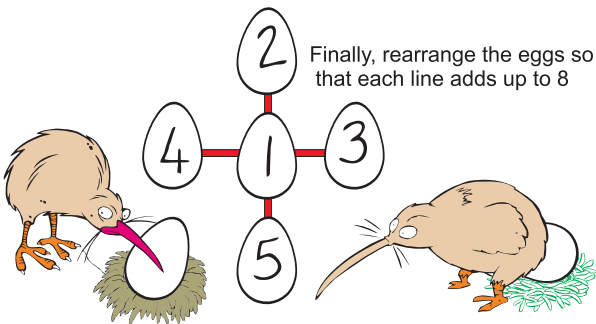
Each of the kiwi eggs below are numbered 1 to 5.



Arrange the eggs so that each line adds up to 10

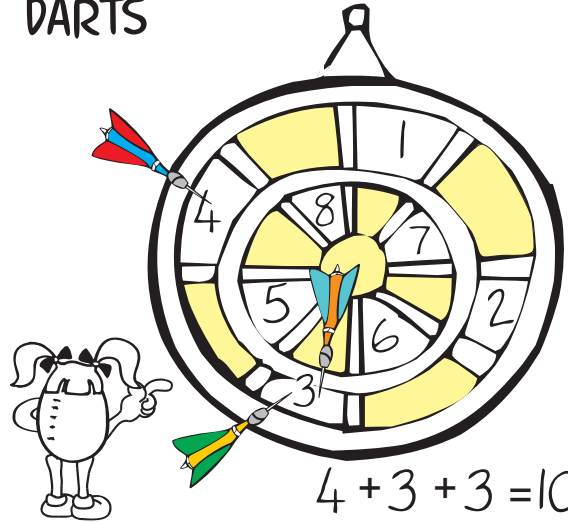


Rearrange the eggs so that each line adds up to 9



Finally, rearrange the eggs so that each line adds up to 8

DARTS



You throw 3 darts and each sticks to a number. How many ways can make a sum of 10?

$4 + 3 + 3 = 10$	$6 + 3 + 1 = 10$
$4 + 4 + 2 = 10$	$6 + 2 + 2 = 10$
$5 + 4 + 1 = 10$	$7 + 2 + 1 = 10$
$5 + 2 + 3 = 10$	$8 + 1 + 1 = 10$

MATHS CROSSWORD
Write the answers to this puzzle in words.

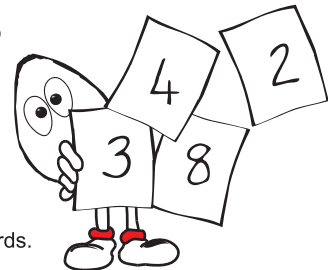
Across

1. $5 + 7 - 1$
3. $7 + 5 - 10$
5. $2 + 2 + 2$
6. $6 + 2 - 4$
7. $4 + 4 + 4$
8. $11 - 4 + 2$

Down

1. $2 + 2 + 4$
2. $11 - 8$
4. $1 + 1 - 1$
5. $9 + 2 - 4$
6. $8 + 4 - 7$
7. $3 + 5 + 2$

SUM UP



Dennis has four cards.

Make these totals from the cards.

- 5 = 2 + 3
- 6 = 2 + 4
- 7 = 3 + 4
- 9 = 2 + 3 + 4
- 10 = 2 + 8
- 11 = 3 + 8
- 12 = 4 + 8
- 13 = 2 + 3 + 8
- 14 = 2 + 4 + 8
- 15 = 3 + 4 + 8

Only use each card once within each sum.

NUMBER LINES

Make each line add up to 16.

3 2 5 6
9 = 16 2
4 3 1 8

Make each line add up to 18.

1 5 4 8
7 = 18 6
10 2 2 4

Make each line add up to 20.

9 4 2 5
10 = 20 8
1 3 9 7

CARD SUMS

Make up some cards numbered 0 to 9.

Pick three cards that sum to a total of 12.
There are 10 different ways.

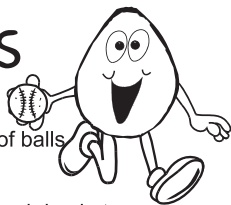
1. 1 2 9
2. 1 3 8
3. 1 4 7
4. 1 5 6
5. 2 3 7
6. 2 4 6
7. 3 4 5
8. 9 3 0
9. 8 4 0
10. 7 5 0

Pick four cards that have a sum of 12.
There are 9 different ways.

1. 0 1 2 9
2. 0 2 3 7
3. 0 3 4 5
4. 0 2 4 6
5. 0 1 3 8
6. 0 1 4 7
7. 0 1 5 6
8. 1 2 3 6
9. 1 2 4 5

BUCKETS OF BALLS

Dennis has three buckets below.
Inside each bucket is an odd number of balls.
There are 19 balls in total.



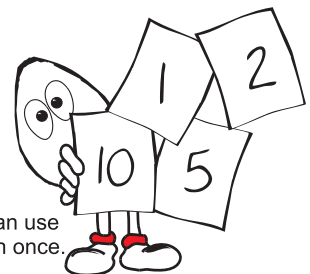
Write the possible number of balls in each bucket.

Bucket 1	+	Bucket 2	+	Bucket 3	=	19
1		1		17		
1		3		15		
1		5		13		
1		7		11		
1		9		9		
3		3		13		
3		5		11		
3		7		9		
5		5		9		
5		7		7		



CARD SUMS

Dennis has four cards.
The cards are numbered:
1, 2, 5 and 10.



Make the totals below using
up to 3 of the numbers. You can use
any of the numbers more than once.

3 = <u>1 + 1 + 1</u>	14 = <u>10 + 2 + 2</u>
4 = <u>2 + 1 + 1</u>	15 = <u>5 + 5 + 5</u>
5 = <u>2 + 2 + 1</u>	16 = <u>10 + 5 + 1</u>
6 = <u>2 + 2 + 2</u>	17 = <u>10 + 5 + 2</u>
7 = <u>5 + 1 + 1</u>	
8 = <u>5 + 2 + 1</u>	
9 = <u>5 + 2 + 2</u>	
11 = <u>5 + 5 + 1</u>	
12 = <u>5 + 5 + 2</u>	
13 = <u>10 + 2 + 1</u>	

Is it possible to make these sums using any 3 of the numbers above?

10 18 19
no - not possible

TASK FORCE

Task 1: Write down 5 odd numbers less than 20.
Three of the numbers must have 2 digits and two of the numbers must have only 1 digit.



Task 2: Write the numbers in order from least to greatest.

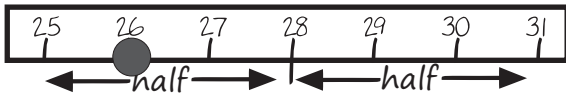


Task 3: Write down 5 numbers less than 30.
Write beside each whether they are odd or even.



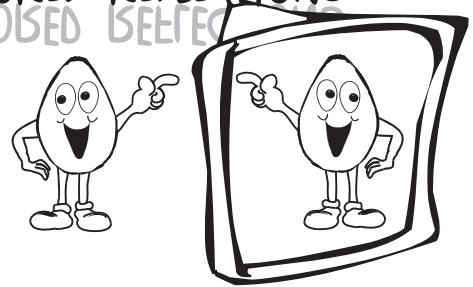
Task 4: Write a number between 25 and 31. → 26

Is the number closer to 25 or 31? 25
Show your answer on the number line below.

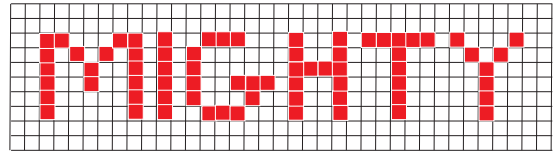
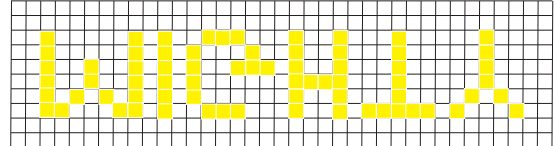


Task 5: What number is half way between 25 and 31?
Mark the number on the number line above. 28

MIRRORED REFLECTIONS



Put a mirror along the red mirror line. What do you see?
Colour in the mirror image of the top grid in each square in the bottom grid to find the hidden message.



Which coloured cubes will go onto spaces 13 and 14?

CHRISTMAS DELIGHTS

Dennis has 16 Christmas trees to decorate.
He has put 4 stars on each tree.
He can colour the stars RED or BLUE.
Show all the different ways that Dennis can colour the four stars. He has coloured the first tree for you (all red)



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