MENTAL MATHS

ADDITION & SUBTRACTION

$7 + 2 = 9$ | $8 - 2 = 6$ | $16 - 6 = 10$

$4 + 5 = 9$ | $11 - 3 = 8$ | $12 - 6 = 6$

$6 + 2 = 8$ | $17 - 8 = 9$ | $15 - 8 = 7$

$7 + 9 = 16$ | $9 - 4 = 5$ | $20 - 10 = 10$

$3 + 8 = 11$ | $18 - 9 = 9$ | $11 - 6 = 5$

MULTIPLICATION

$2 \times 8 = 16$ | $14 = 7 \times 2$

$4 \times 2 = 8$ | $4 = 2 \times 2$

$2 \times 9 = 18$ | $12 = 6 \times 2$

$0 \times 2 = 0$ | $2 = 2 \times 1$

$2 \times 3 = 6$ | $10 = 5 \times 2$

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the answer.
Then write the turnaround fact.

a. $6 \times 2 = 12$
$2 \times 6 = 12$

c. $9 \times 2 = 18$
$2 \times 9 = 18$

b. $2 \times 3 = 6$
$3 \times 2 = 6$

d. $2 \times 8 = 16$
$8 \times 2 = 16$

2 Write the fact family for each picture.
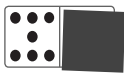
a. 18 dots in total

$9 + 9 = 18$
$9 + 9 = 18$
$18 - 9 = 9$
$18 - 9 = 9$

c. 15 dots in total

$7 + 8 = 15$
$8 + 7 = 15$
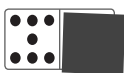$15 - 7 = 8$
$15 - 8 = 7$

b. 13 dots in total

$9 + 4 = 13$
$4 + 9 = 13$
$13 - 9 = 4$
$13 - 4 = 9$

d. 11 dots in total

$7 + 4 = 11$
$4 + 7 = 11$
$11 - 7 = 4$
$11 - 4 = 7$

FRACTIONS & DECIMALS

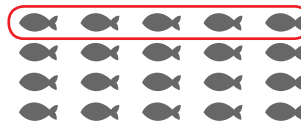**3** Loop one-half. Complete the sentence.

One-half of 16 is **8**.

One-half of 18 is **9**.
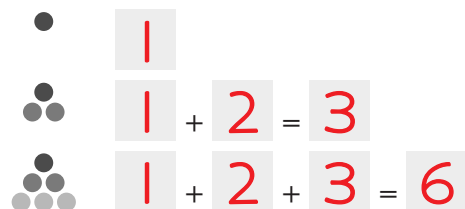
4 Loop one-quarter. Complete the sentence.

One-quarter of 20 is **5**.

One-quarter of 24 is **6**.

PATTERNS & ALGEBRA

**5** **a.** Write numbers to describe each part in this pattern.

1

$1 + 2 = 3$

$1 + 2 + 3 = 6$

b. Write numbers to describe the fourth picture in the same pattern.

$1 + 2 + 3 + 4 = 10$

Fractions describe **equal** parts of one whole. For example, when one whole is divided into 2 equal parts, the fraction **one-half** describes one of those equal parts.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

6 Ten 🪣 balance 1 kilogram.
Write **less than**, **equal to** or **more than** one-half kilogram to describe each object.
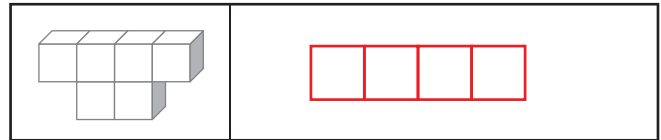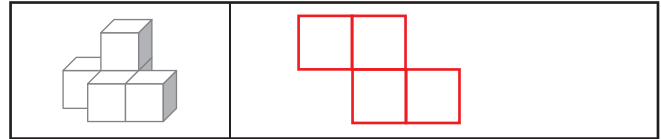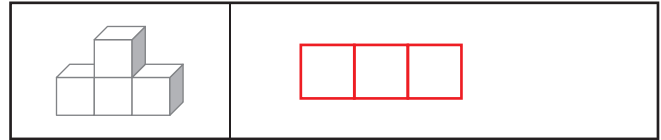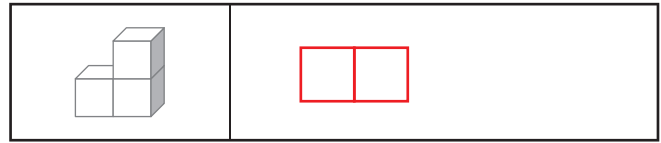
a.

more than   one-half kilogram

b.
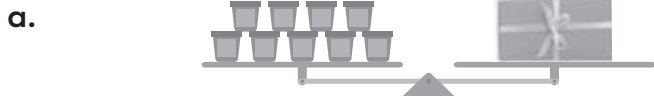
less than   one-half kilogram

c.

equal to   one-half kilogram
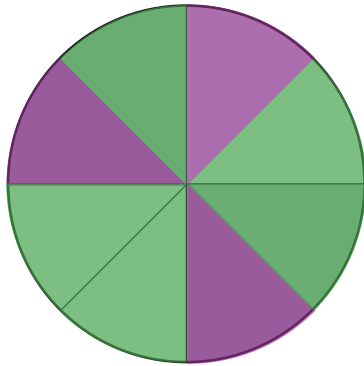
SHAPE

7 Draw what you would see from **above** each object.

STATISTICS & PROBABILITY

CHANCE

8 Imagine you make 20 spins with this spinner.

a. How many times do you think it will stop on purple?

b. ✳ Use a pencil and paperclip with the spinner and make 20 spins. Record the results in this tally chart.

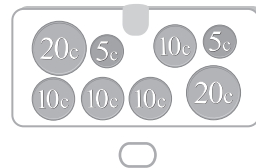| Colour	Tally	Total
Purple		
Green		

DATA REPRESENTATION & INTERPRETATION

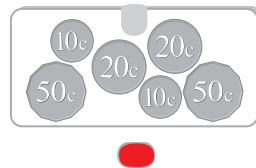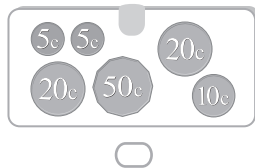**9** **a.** Use tallies to record the numbers of consonants and vowels in these students' first names.

Student Name	Consonants	Vowels
Timothy	卌	||
Seth	|||	|
Mia	|	||
William	||||	|||
Louise	||	||||
Tahlia	|||	|||

b. Who has the least number of vowels?   Seth

c. Who has more vowels than consonants?

Mia   Louise

TESTER

Which purse shows an amount greater than $1.50?

Colour one bubble.

⭕   ⭕   🔴   ⭕

PARENT/CARER SIGNATURE _____   DATE _____

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

$6 + 8 = 14$

$8 + 9 = 17$

$7 + 9 = 16$

$5 + 3 = 8$

$5 + 7 = 12$

$9 - 1 = 8$

$7 - 5 = 2$

$11 - 5 = 6$

$14 - 7 = 7$

$19 - 10 = 9$

$13 - 7 = 6$

$17 - 8 = 9$

$15 - 10 = 5$

$11 - 7 = 4$

$25 - 12 = 13$

MULTIPLICATION

$2 \times 3 = 6$

$7 \times 2 = 14$

$2 \times 5 = 10$

$8 \times 2 = 16$

$2 \times 6 = 12$

$8 = 4 \times 2$

$0 = 2 \times 0$

$18 = 2 \times 9$

$2 = 1 \times 2$

$4 = 2 \times 2$

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Loop the number.
Write the number **not** looped.

*

Loop 30 fingers. **70** not looped

Loop 15 fingers. **85** not looped

Loop 25 fingers. **75** not looped

MONEY & FINANCIAL MATHEMATICS

2 Draw coins to show 2 different ways to
* pay the exact amount for each stamp.

25c: (20) (5) / (10) (10) (5)
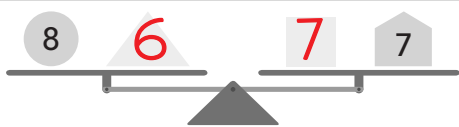
55c: (50) (5) / (20) (20) (10) (5)
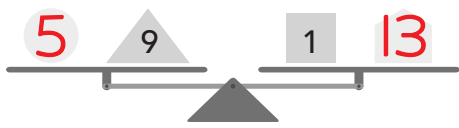
40c: (20) (20) / (20) (10) (5) (5)

PATTERNS & ALGEBRA

3 Write numbers to make each balance
* picture true. Then write a matching
number sentence.

4   5   6   3

$4 + 5 = 6 + 3$

8   6   7   7

$8 + 6 = 7 + 7$

5   9   1   13

$5 + 9 = 1 + 13$

4 **a.** Write numbers to show the same
* pattern another way.

■ ★ ● ■ ★ ●
2 4 6 2 4 6

▲ ● ● ▲ ▲ ● ● ▲
1 2 2 1 1 2 2 1

b. Loop the repeating part in each pattern.

ℹ The equals symbol (=) means **balances** or **is the same as**. For example,
$7 + 4 = 8 + 3$ can be read as $7 + 4$ *balances* $8 + 3$ or $7 + 4$ *is the same as* $8 + 3$.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

5 Write the time on the digital clock.
Then write the **minutes past** time.

| 1:50 |
| 50 minutes past 1 |

| 7:15 |
| 15 minutes past 7 |

| 11:05 |
| 5 minutes past 11 |

SHAPE

6 Polygons are closed shapes that have only straight sides. Use colours to show different polygons in this picture.

7 Draw a shape to match. ✱

a polygon	not a polygon

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

8 You can sort these buttons by colour and shape.

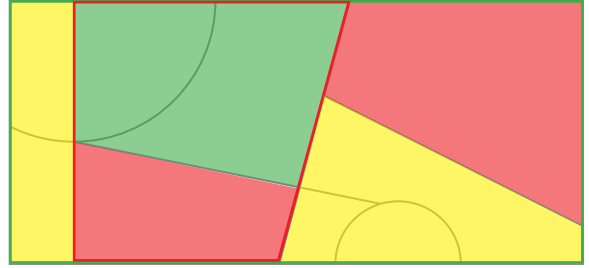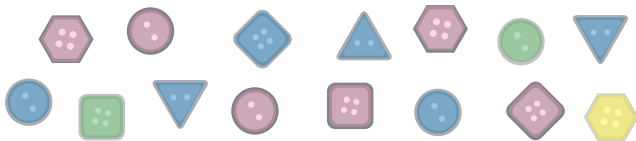**a.** Use tallies in this two-way table to show the sorting.

		Colour			
		Blue	Pink	Green	Yellow
Shape	Round	II	II	I	
	Square	I	II	I	
	Triangle	III			
	Hexagon		II		I

b. How many buttons are blue?   6

c. How many buttons are round?   5

d. How many buttons are blue and round?   2

e. Which button shape comes in only one colour?   triangle

f. Which two colours have the same number of buttons?

blue and pink

g. Which colour has the fewest buttons?   yellow

h. Which colour has the most buttons?   blue

TESTER

Which shape does **not** have one-half shaded?

Colour one bubble.

○   ○   ○   ●

PARENT/CARER SIGNATURE _____   DATE _____

NAME _____

STEP IT UP! 3
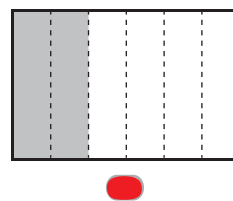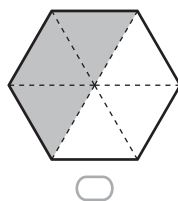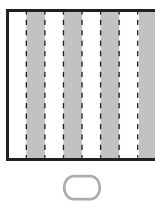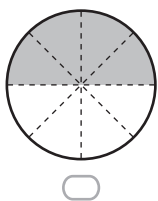
MENTAL MATHS

ADDITION & SUBTRACTION

9 + 0 = **9**	**12** = 5 + 7	10 – **5** = 5	17 – 9 = **8**	34 – **10** = 24
23 + **10** = 33	**18** = 4 + 14	6 – **3** = 3	8 – **2** = 6	45 – **10** = 35
17 + **10** = 27	**25** = 23 + 2	16 – 8 = **8**	19 – 10 = **9**	50 – 20 = **30**
44 + **10** = 54	**47** = 45 + 2	8 – **4** = 4	18 – **4** = 14	66 – **10** = 56
33 + 10 = **43**	**32** = 30 + 2	4 – 0 = **4**	39 – 3 = **36**	81 – **10** = 71

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Read the clues.
Write the matching number.

I am between 40 and 70. I am an odd number. The digit in the tens place is 4 more than the digit in the ones place.	**51**
I am more than 30 but less than 45. I am an odd number. My digits are the same.	**33**
I am between 60 and 80. I am an even number. The digit in the tens place is odd. The difference between my digits is 7.	**70**
I am less than 90 but more than 70. Both my digits are even. The difference between my digits is 6.	**82**
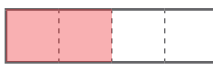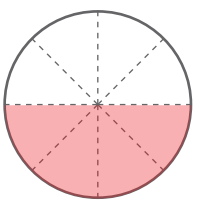
2 Complete these tables.
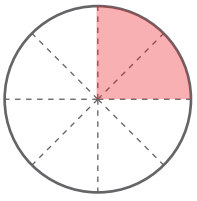
Multiply by 2		Share by 2	
Number in each group	Total number	Total number	Number in each group
4	**8**	4	**2**
7	**14**	8	**4**
5	**10**	6	3
9	18	14	**7**
8	**16**	**2**	1
3	6	12	**6**

FRACTIONS & DECIMALS

3 **a.** Colour one-half of each shape.
✻

b. Colour one-quarter of each shape.

PATTERNS & ALGEBRA

4 Write the missing numbers to make true sentences.

1 group of 4 = **4**

2 groups of 4 = **8**

3 groups of 4 = **12**

4 groups of 4 = **16**

ℹ Capacity is measured in units such **litres** and is the total amount that a container can hold. For example, a 1-litre jug has a capacity of 1 litre.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

5

1 L — A 1 L — B 1 L — C

a. Which container is holding 1 litre?   **B**

b. Which container is holding one-quarter of a litre?   **C**

c. Which container is holding one-half of a litre?   **A**

SHAPE

6 Write the name of each 2D shape.

a. I have 3 corners. I have 3 straight sides.

triangle

b. I have 4 corners that are the same size. I have 4 straight sides of equal length.
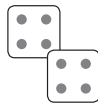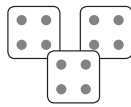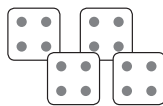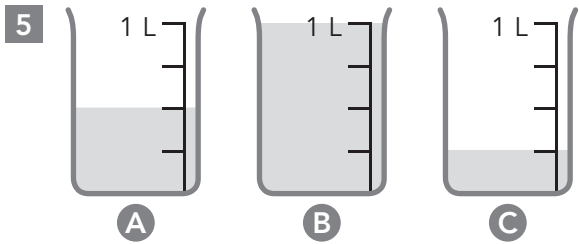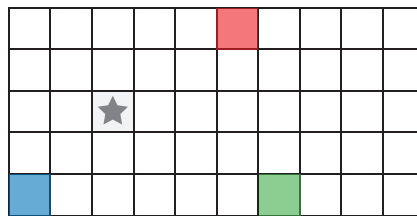
square

LOCATION & TRANSFORMATION

7 Start at the ★. Follow the directions. Colour the square at the end of each path.

a. Go right 2, down 1, left 4, down 1. Colour the square blue.

b. Go down 1, left 2, up 3, right 5. Colour the square red.

c. Go up 1, right 1, down 3, right 3. Colour the square green.

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

8 Write these items in the Venn diagram.

| shorts | beanie | gloves | cap |
| jeans | thongs | joggers | t-shirt |

Things We Wear

Hot Day: shorts thongs t-shirt
(overlap) cap joggers
Cold Day: beanie gloves jeans
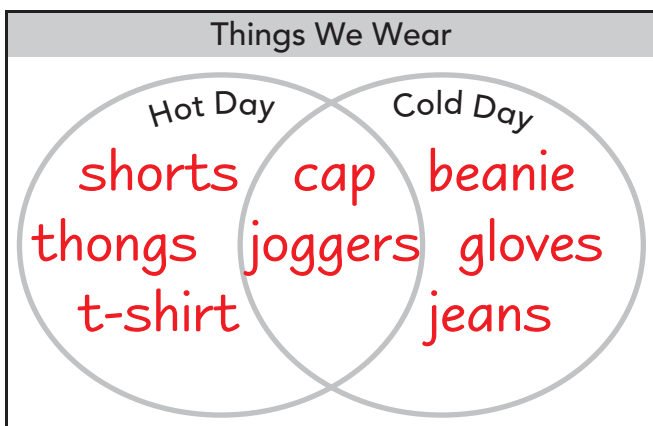
9 This graph shows how Year 3 students get to school.

Bike, Bus, Walk, Car
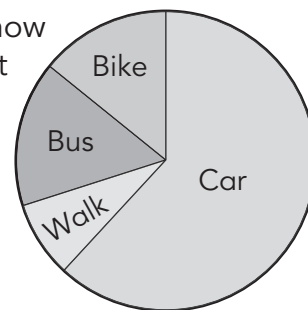
a. How do most students get to school?

car

b. Do **fewer** or **more** students walk than travel in a bus to school?

fewer

c. Which 2 types of travel are used **about** the same?

bike   **bus**

TESTER

This table shows the points achieved by 4 reading groups.

Which group has 9 points?

- ○ Emus
- ○ Kangaroos
- ○ Wombats
- ● Koalas

Colour one bubble.

Group	Points
Emus	卌 ‖
Kangaroos	卌 卌
Wombats	‖‖‖
Koalas	卌 ‖‖‖

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

20 + **20** = 40   16 + **4** = 20   **10** – 8 = 2

40 = **35** + 5   19 + 3 = **22**   **12** – 5 = 7

64 = 4 + **60**   17 + **5** = 22   **16** – 7 = 9

50 + **30** = 80   15 + 5 = **20**   **9** – 3 = 6

90 = **70** + 20   18 + **2** = 20   **12** – 9 = 3

MULTIPLICATION

7 × 2 = **14**   **0** = 2 × 0

2 × **9** = 18   6 × 2 = **12**

5 × 2 = **10**   **6** = 3 × 2

2 × **8** = 16   2 × 2 = **4**

4 × 2 = **8**   **18** = 9 × 2

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Draw a line to show where each number is located on the number line.

20   30   40   50

29   35   41   48

50   60   70   80

55   67   71   76

0   10   20   30

7   14   22   25

MONEY & FINANCIAL MATHEMATICS

2 Draw coins to show how you could pay
✳ the exact amount for each item.

sharpener • 35c	20 10 5
pen • 65c	50 10 5
marker • 70c	50 20
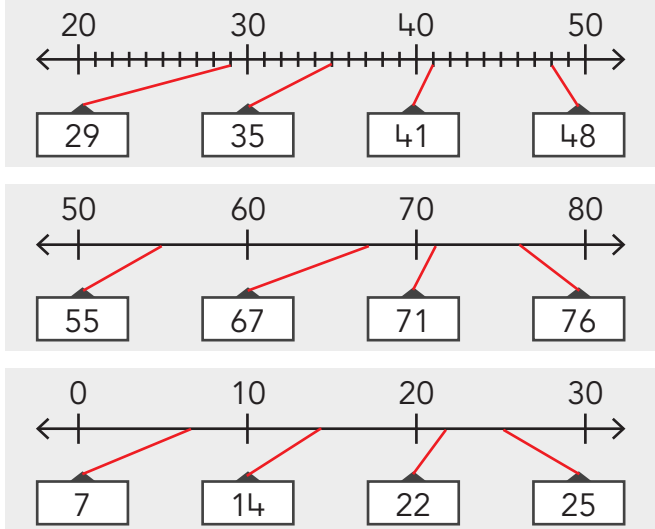
PATTERNS & ALGEBRA

3 Continue these number patterns.

+3 +3 +3 +3 +3
5 | 8 | **11** | **14** | **17** | **20**

+5 +5 +5 +5 +5
10 | 15 | **20** | **25** | **30** | **35**

26 | 25 | 24 | **23** | **22** | **21**

35 | 33 | 31 | **29** | **27** | **25**

4 Draw more ● to balance the total.
Then write a matching number sentence.

11 counters   **11** = **5** + **6**

17 counters   **17** = **9** + **8**

16 counters   **16** = **8** + **8**

ⓘ A **mirror line** cuts a shape or design in half so that one-half is a mirror image of the other half.

MEASUREMENT & GEOMETRY

SHAPE

5 Copy each shape.
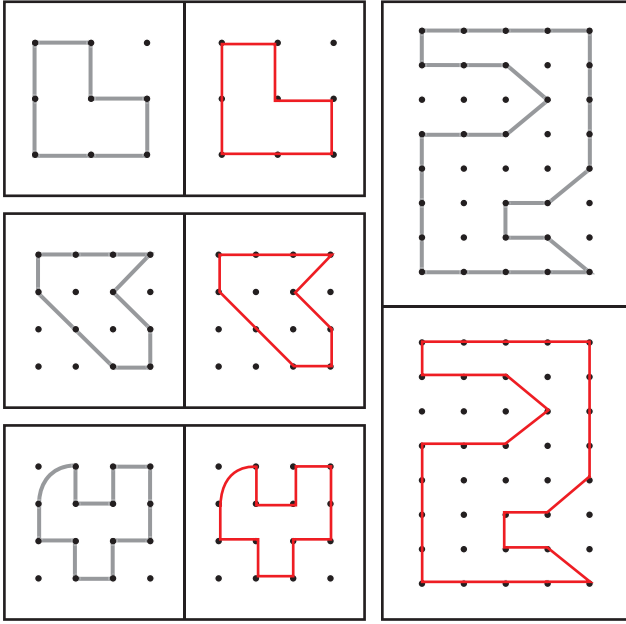
LOCATION & TRANSFORMATION

6 Find and draw a mirror line in each shape. Then colour one-half of each shape. ✱

STATISTICS & PROBABILITY
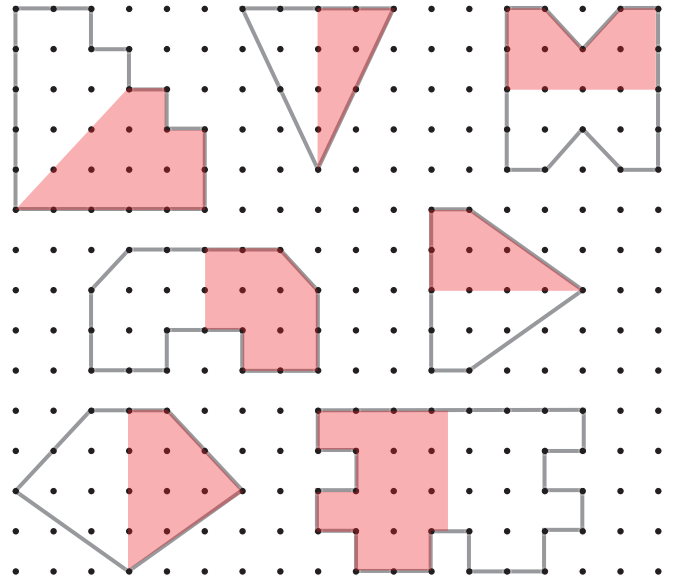
DATA REPRESENTATION & INTERPRETATION

7 Jack measured how far he could throw different objects. This table shows his results.

Item	Metres
	5 m
	10 m
	8 m
	1 m

a. Which object travelled the greatest distance? **The ball.**

b. Why do you think the feather only travelled one metre?

Because it is very light.

c. Show Jack's results on this bar graph.

Title:

Number of metres

11
10
9
8
7
6
5
4
3
2
1
0

Object

TESTER
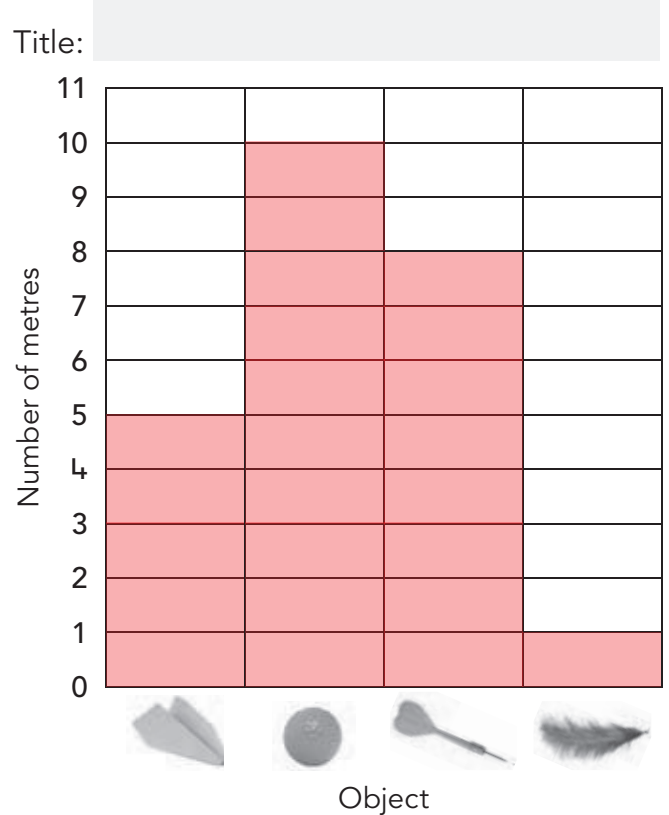
Twenty-four shoes were lined up outside a classroom door. How many pairs of shoes are there?

Colour one bubble.

48   9   12   24
○   ○   ●   ○

PARENT/CARER SIGNATURE _____ DATE _____

✱ Answers will vary. This is one example.

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

5 + **1** + 4 = 10

5 + 2 + 8 = 15

8 + 7 + 5 = **20**

6 + 3 + 4 = **13**

9 + 1 + 6 = 16

10 + 17 = 27

10 + 19 = 29

10 + **10** = 20

30 + 39 = 69

28 + **30** = 58

38 – 20 = **18**

65 – 10 = **55**

46 – 10 = **36**

59 – 20 = **39**

87 – 10 = **77**

MULTIPLICATION

6 × 2 = **12**

2 × 2 = **4**

9 × 2 = **18**

4 × 2 = **8**

1 × 2 = **2**

16 = 8 × 2

10 = 5 × 2

6 = 3 × 2

14 = 7 × 2

20 = 10 × 2

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the answer. Then draw jumps to show your thinking.

45 + 21 = **66**

✱

+20

+1

45   65   66
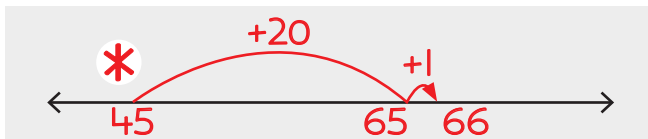
2 Write the missing digits to make each number sentence true.

3 9 + 1 **4** = **5** 3

5 5 + 2 **9** = 8 4

6 4 + 3 **3** = 9 7

3 **a.** Look at this number sentence. Write **true** or **false**.

$35 + $36 = $71   **true**

✱ **b.** How did you decide?

Double 35 is 70 plus 1 more.

FRACTIONS & DECIMALS

4 Loop one-quarter. Complete the sentence.

One-quarter of 28 is **7**.

MONEY & FINANCIAL MATHEMATICS

5 Write the totals.

2 DOLLARS 50c 20c 10c 5c   **$2.85**

1 DOLLAR 20c 20c 20c 5c 5c   **$1.70**
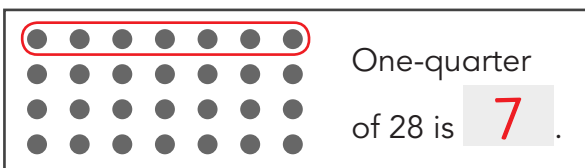
PATTERNS & ALGEBRA

6 Write the answers. Use a pattern to help.

6 + 5 = **11**

16 + 5 = **21**

26 + 5 = **31**

36 + 5 = **41**

46 + 5 = **51**

39 + 3 = **42**

39 + 4 = **43**

39 + 5 = **44**

39 + 6 = **45**

39 + 7 = **46**

7 Complete these addition patterns.

5 2 + 8 = **60**

5 3 + 8 = **61**

5 4 + 8 = **62**

5 5 + 8 = **63**

5 6 + 8 = **64**

7 5 + 6 = **81**

7 6 + 6 = **82**

7 7 + 6 = **83**

7 8 + 6 = **84**

7 9 + 6 = **85**

ℹ You can **use doubles** to add nearby numbers.
For example, when you *see* 45 + 46 *think* double 45 plus 1 more.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

8 Loop the container that holds about 1 litre.

9 ✱ Draw 2 other containers that hold about 1 litre.

SHAPE

10 For each of these, draw two more sides to make an oblong or a square.
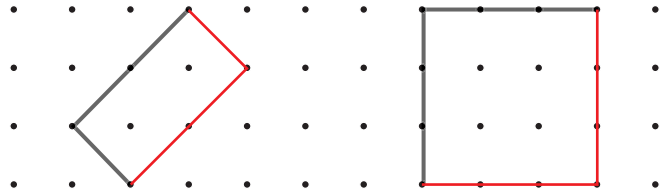
GEOMETRIC REASONING

11 In each pair, loop the strips that show the greatest opening.

STATISTICS & PROBABILITY
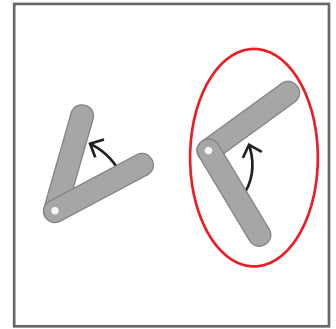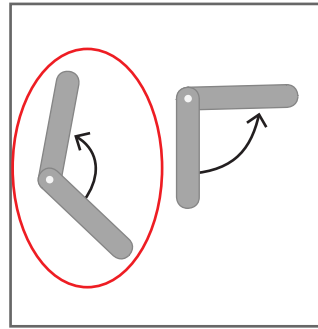
DATA REPRESENTATION & INTERPRETATION

12 Look at this bar graph.

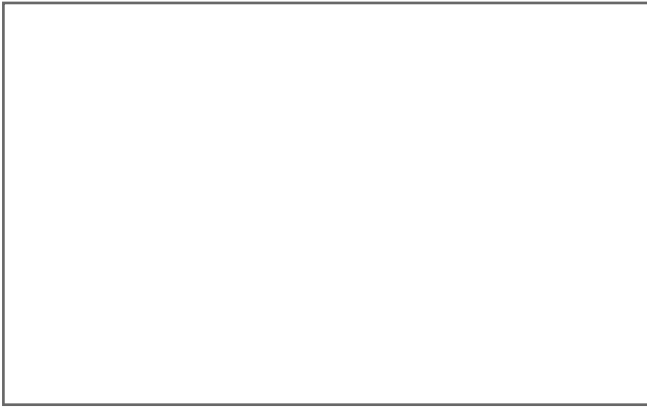**Year 3 Favourite Sandwich Fillings**

Number of votes (vertical axis: 0 1 2 3 4 5)

Sandwich filling (horizontal axis: Vegemite, Ham, Chicken, Jam, Tuna)
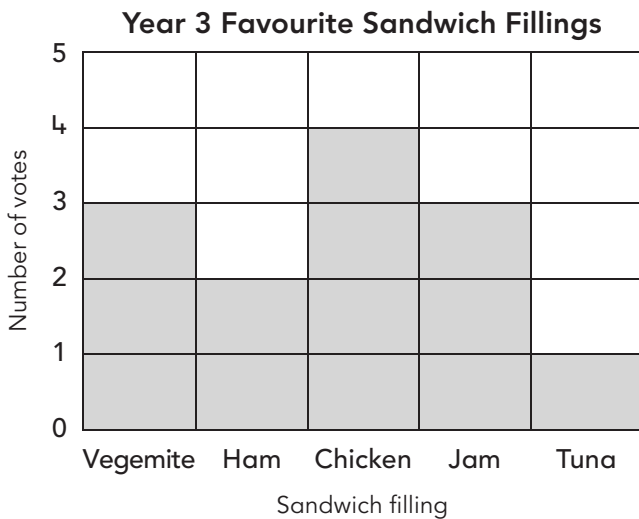
a. Which is the least popular filling?

tuna

b. Which filling has 2 votes?

ham

c. How many more students voted for chicken than ham?

2

d. Which two fillings have the same number of votes?

jam

vegemite

e. How many students voted altogether?

13

TESTER

Which object has 8 edges?

Colour one bubble.

● ○ ○ ○

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

$7 + \boxed{5} = 12$ $2 + 5 + 8 = \boxed{15}$ $30 - 10 = \boxed{20}$

$4 + \boxed{5} = 9$ $3 + 2 + \boxed{7} = 12$ $45 - 10 = \boxed{35}$

$\boxed{5} + 10 = 15$ $9 + \boxed{1} + 6 = 16$ $71 - 10 = \boxed{61}$

$9 + \boxed{5} = 14$ $4 + 2 + \boxed{4} = 10$ $82 - 10 = \boxed{72}$

$\boxed{8} + 8 = 16$ $\boxed{1} + 3 + 7 = 11$ $64 - 10 = \boxed{54}$

MULTIPLICATION

$2 \times 5 = \boxed{10}$ $\boxed{4} = 2 \times 2$

$4 \times 2 = \boxed{8}$ $\boxed{16} = 8 \times 2$

$6 \times 2 = \boxed{12}$ $\boxed{0} = 0 \times 2$

$2 \times 4 = \boxed{8}$ $\boxed{6} = 3 \times 2$

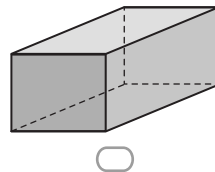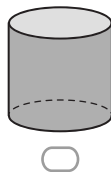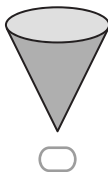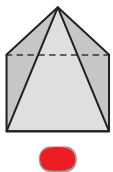$7 \times 2 = \boxed{14}$ $\boxed{18} = 9 \times 2$

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the answer.
Then draw jumps to show your thinking.

$37 + 21 = \boxed{58}$
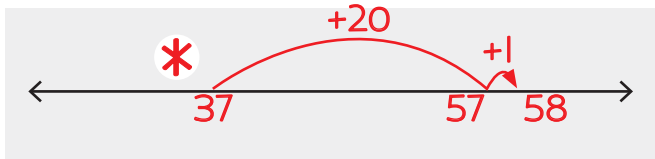
2 Draw jumps to show 2 different ways to work out the answer.

a. $59 + 23 = \boxed{82}$
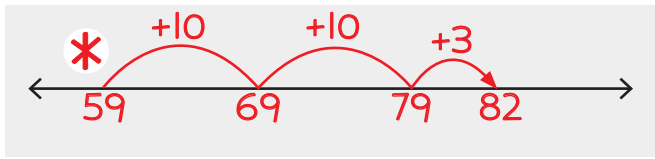
b. $46 + 37 = \boxed{83}$
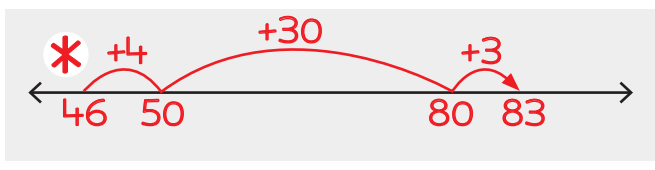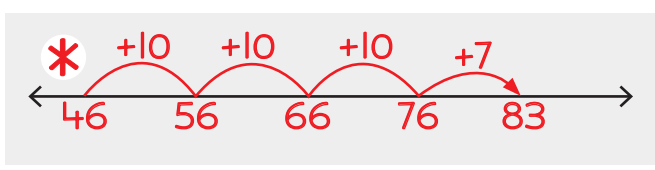
3 Write the missing numbers on each piece of hundred board.

		25	
33	34	35	36
		45	46

	77		
86	87	88	89
96			99
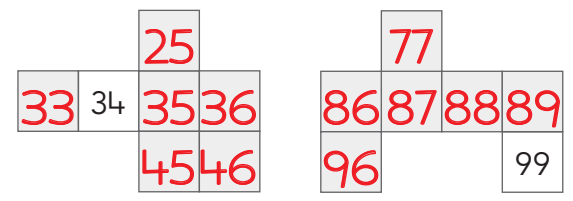
FRACTIONS & DECIMALS

4 Colour one-third. Complete the sentence.

One-third of $\boxed{18}$ is $\boxed{6}$.
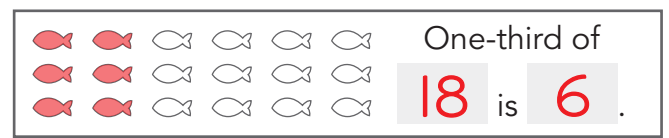
MONEY & FINANCIAL MATHEMATICS

5 Draw the coins you could use to make $2.45.

②   ⑳ ⑳ ⑤

PATTERNS & ALGEBRA
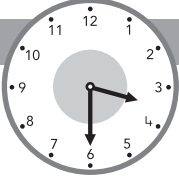
6 Write the next 4 numbers in each pattern.

48, 42, 38, 32, $\boxed{28}$, $\boxed{22}$, $\boxed{18}$, $\boxed{12}$

82, 73, 64, 55, $\boxed{46}$, $\boxed{37}$, $\boxed{28}$, $\boxed{19}$

64, 67, 70, 73, $\boxed{76}$, $\boxed{79}$, $\boxed{82}$, $\boxed{85}$
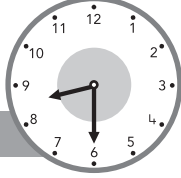
ℹ You can use a **place-value strategy** to add 2 two-digit numbers.
For example, when you see 38 + 23 *think* 38 + 20 + 3 or 38 + 3 + 20.

MEASUREMENT & GEOMETRY
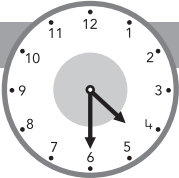
USING UNITS OF MEASUREMENT
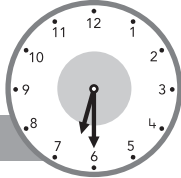
7 Write the times on the digital clocks. Then complete the sentence.

START — 3:30

STOP — 8:30

The bus ride took **5** hours.

START — 4:30

STOP — 6:30

The movie took **2** hours.

SHAPE

8 Complete the charts.
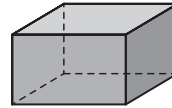
Corners	Edges	Faces
8	12	6
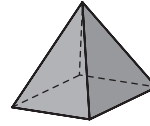
Corners	Edges	Faces
5	8	5

GEOMETRIC REASONING

9 Colour the strips to match.

Green = one-quarter turn

Blue = less than a one-quarter turn

Yellow = more than a one-quarter turn

STATISTICS & PROBABILITY
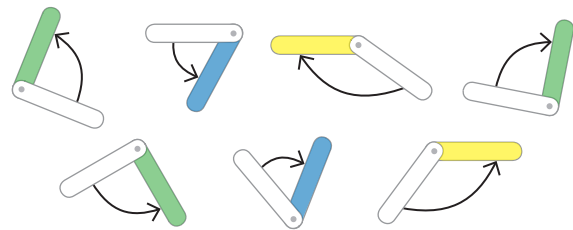
DATA REPRESENTATION & INTERPRETATION

10 Daniel asked some friends what super power they liked best. He showed his results with this picture graph.

Super Powers   ★ = 1 vote

Strength	★	★				
Speed	★	★	★	★		
Invisibility	★	★	★	★	★	★
Flight	★	★	★			

a. What is the most popular super power? **invisibility**

b. What is the least popular super power? **strength**

c. How many friends voted for speed and strength? **6**

d. How many more friends would like to be invisible than be able to fly? **3**

e. How many friends voted altogether? **15**

TESTER

Which of these shows a flip to the right?

Colour one bubble.

F ꓔ   F Ꙅ   F ꓤ   F ⅃⅃

○   ●

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! 7

MENTAL MATHS

ADDITION & SUBTRACTION

6 + 22 = **28**	10 + **52** = 62	39 – 2 = **37**
7 + 12 = **19**	**30** + 10 = 40	43 – 2 = **41**
9 + 11 = **20**	30 + **47** = 77	65 – 1 = **64**
4 + 21 = **25**	80 + **14** = 94	37 – 1 = **36**
5 + 11 = **16**	**21** + 20 = 41	44 – 1 = **43**

MULTIPLICATION

4 × 2 = **8**	**6** = 3 × 2
6 × 2 = **12**	**14** = 2 × 7
2 × 0 = **0**	**18** = 9 × 2
8 × 2 = **16**	**2** = 2 × 1
2 × 10 = **20**	**10** = 5 × 2

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the answer. Then draw jumps to show your thinking.

a.   87 – 12 = **75**

✱

$$\overset{-10}{\frown} \quad \overset{-2}{\frown}$$
87   77   75

b.   93 – 67 = **26**

✱
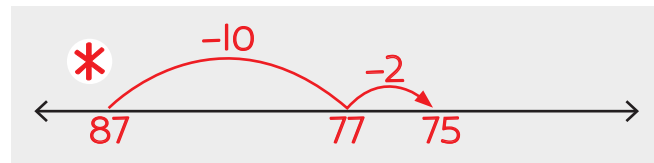
$$\overset{-60}{\frown} \quad \overset{-7}{\frown}$$
93   33   26
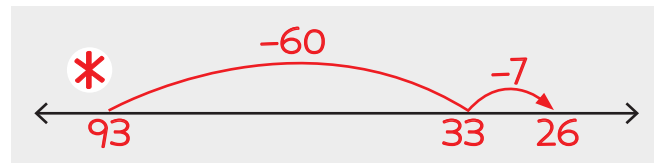
2 Write the answer. Show how you worked it out on the number board.

65 – 24 = **41**

21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	(65)	66	67	68	69	70

3 Look at the blocks. Write the number on the expander. Then write the number.
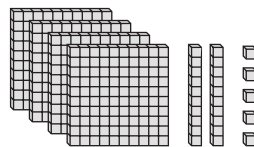
4 hundreds **2** tens **5** ones   **425**

FRACTIONS & DECIMALS

4 Loop one-half. Write the answer.

One-half of 18 is **9**.

MONEY & FINANCIAL MATHEMATICS

5 Write the total.

| 2 DOLLARS | 2 DOLLARS | 20c | 5c | **$4.25** |
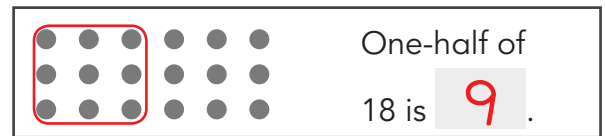
PATTERNS & ALGEBRA

6 Write the answers.

55 + 10 = **65**	46 – 10 = **36**
65 + 10 = **75**	56 – 10 = **46**
75 + 10 = **85**	66 – 10 = **56**
85 + 10 = **95**	76 – 10 = **66**
95 + 10 = **105**	86 – 10 = **76**

7 Write the next 4 numbers.

Count on in steps of 10.
130, 140, **150**, **160**, **170**, **180**

Count back in steps of 10.
175, 165, **155**, **145**, **135**, **125**

ℹ You can use a **count-back strategy** to subtract.
For example, when you see 84 – 56 think 84 – 50 – 4 – 2 or 84 – 4 – 50 – 2.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

8 Look at this calendar.

March

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

a. How many Wednesdays are there in March? **5**

b. What is the date of the 1st Sunday in March? **6th**

c. What day is 17 March? **Thursday**

d. What day is it 4 days after 21 March? **Friday**

9 What are 3 things that you would ✳ measure in metres?

a car

a couch

a room

SHAPE

10 Loop the object that matches the data in the chart.

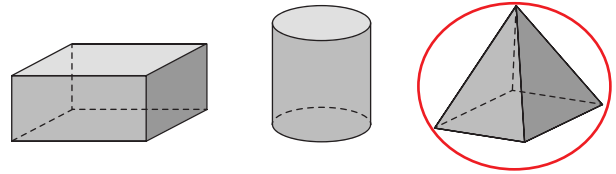| Corners	Straight edges	Curved edges	Flat faces	Curved surfaces
5	8	0	5	0

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

11 Look at the picture graph.

a. Which flavour was the least popular?

raspberry

b. Which flavour had 2 votes?

lemon

c. Which flavour had double the number of votes than lemon?

lime

d. How many fewer people voted for raspberry than orange? **4**

e. How many people voted altogether? **12**

Favourite Flavour   = 1 vote
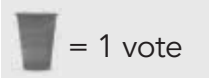
TESTER

School starts at a quarter to nine.
Which clock below shows this time?

Colour one bubble.

9:15	8:15	8:45	9:45
○	○	●	○

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

34 + 9 = **43**   **61** + 10 = 71   70 − 35 = **35**

63 + 9 = **72**   10 + **44** = 54   60 − **30** = 30

72 + 9 = **81**   **20** + 45 = 65   90 − 45 = **45**

55 + 9 = **64**   **20** + 9 = 29   **40** − 20 = 20

21 + 9 = **30**   85 + **10** = 95   **30** − 15 = 15

MULTIPLICATION

4 × 10 = **40**   **50** = 10 × 5

10 × 10 = **100**   **20** = 2 × 10

10 × 1 = **10**   **60** = 6 × 10

10 × 7 = **70**   **30** = 10 × 3

9 × 10 = **90**   **80** = 10 × 8

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the answer. Then draw jumps to show how you worked out the difference.

85 − 48 = **37**

✱

−40   −8

85   45   37
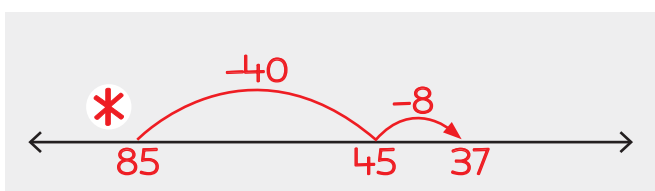
2 Write **true** or **false**.

$76 − $27 = $51	**false**
$84 − $36 = $48	**true**
$93 − $46 = $47	**true**

3 The number in the centre shows the difference between the numbers in each pair of opposite circles. Write the missing numbers.

76   43   22

47 — 12 — 59

34   **31**   **64**
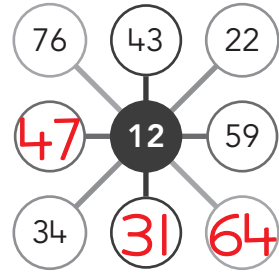
4 ✱ Write numbers to show true number sentences.

4 + 7 = **11**   12 + **7** = **19**

29 − **14** = 15   **3** + 10 = **13**

12 + **8** = 20   25 + **11** = **36**

FRACTIONS & DECIMALS

5 Draw lines to show quarters. ✱

Colour one-quarter.

Colour three-quarters.

MONEY & FINANCIAL MATHEMATICS

6 a. Hollie has $24. How much more does she need to buy a new dress that costs $32? **16**

b. ✱ Draw the notes and coins she could use to pay the exact price.

10   **20**   ②
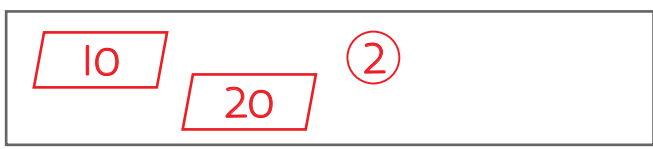
PATTERNS & ALGEBRA

7 Write the missing numbers.

×2   ×2

2 → 4 → 8 → **16** → **32**

−11   −11

385 → 374 → 363 → **352** → **341**

ℹ The **reflection** of a shape looks like the shape has been flipped over an imaginary line.
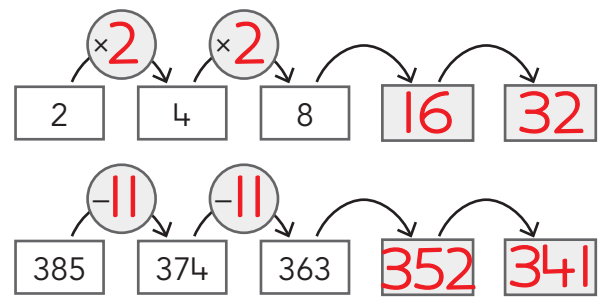
USING UNITS OF MEASUREMENT

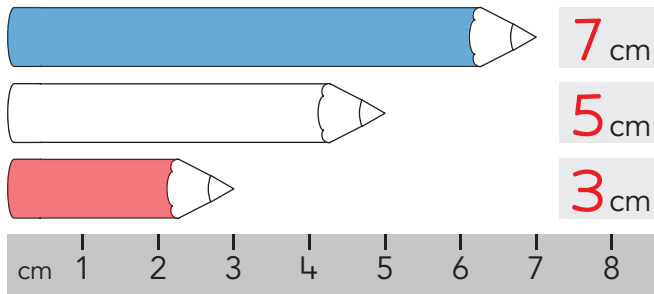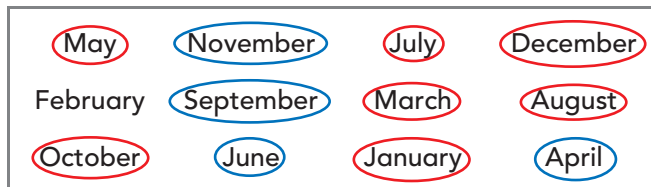**8** **a.** Use the ruler to work out the length of each pencil.

7 cm

5 cm

3 cm

cm 1 2 3 4 5 6 7 8

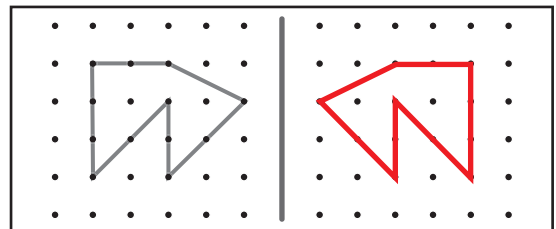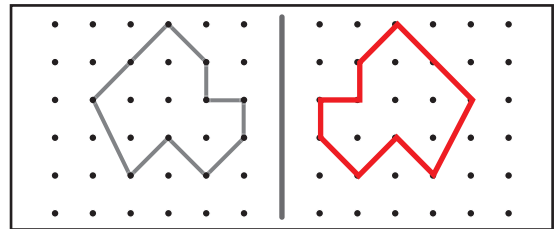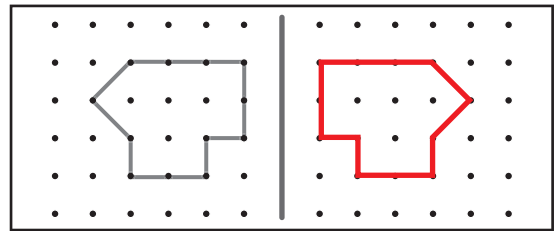**b.** Colour the shortest pencil red.

c. Colour the longest pencil blue.

9 Loop in blue the months that have 30 days. Loop in red the months that have 31 days.

May   November   July   December

February   September   March   August

October   June   January   April

LOCATION & TRANSFORMATION

10 Draw the reflection of each shape on the other side of the blue line.

DATA REPRESENTATION & INTERPRETATION

11 This tally chart shows the types of books students like to borrow from the library.

Book Type	Tally	Total
Story	‖‖‖ I	6
Comic	‖‖‖ III	8
Digital	‖‖‖ ‖‖‖ I	11
Fact	II	2
Picture	‖‖‖ I	6

a. Write the total for each type of book.

b. Show the results on this bar graph.

Favourite Books Borrowed

Number of students — 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0

Story   Comic   Digital   Fact   Picture

Type of book

TESTER
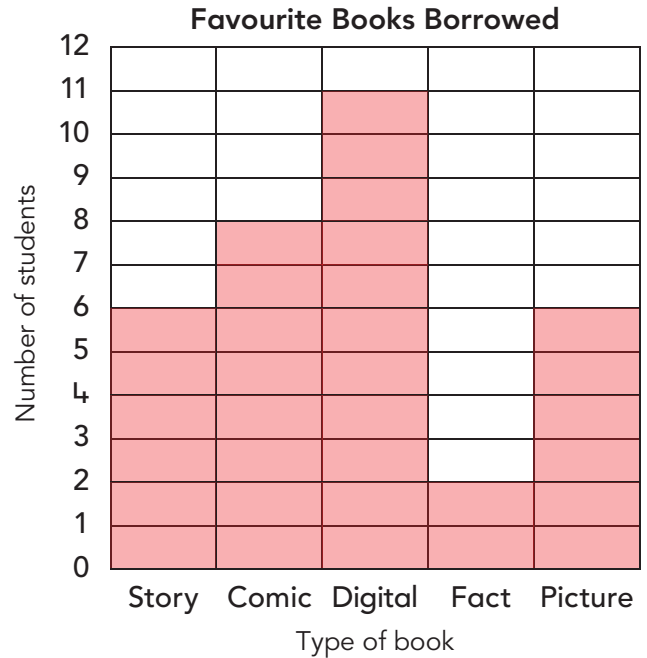
Ryley took a marble out of a box without looking. Which box would give Ryley the best chance of picking a red marble?

Colour one bubble.
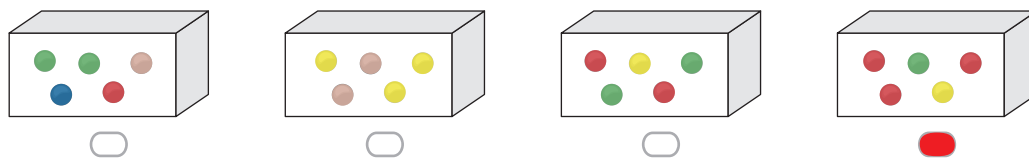
PARENT/CARER SIGNATURE _____   DATE _____

NAME _____

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Read the clues to help you work out the mystery number.

> I am greater than 55 and less than 67. I am an even number. The difference between my digits is 4.
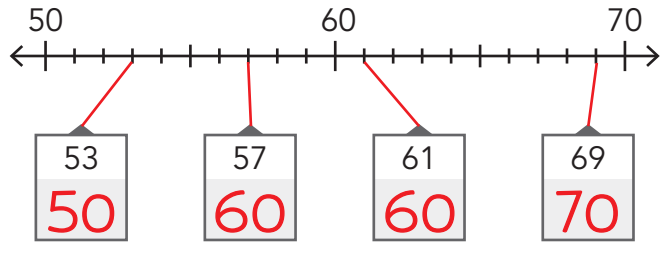>
> **64**

2 Complete the missing parts.

4 hundreds **7 0**
470

8 ones
2 hundreds
0 tens

2 hundreds **0 8**
208

3 Draw a line to show where these numbers are located on the number line. Then write the nearest ten.

50   60   70

| 53 | 57 | 61 | 69 |
| **50** | **60** | **60** | **70** |

4 Use the number line to work out the total cost.

CD • $18
headphones • $29

$ **18** + $ **29** = $ **47**

+2   +20   +7   ✱
18 20   40 47

5 Use the number line to work out the difference in cost.

shirt • $36
jeans • $74
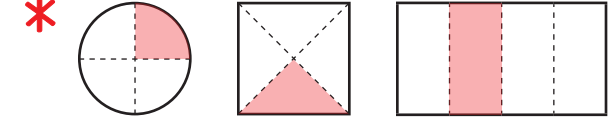
$ **36** – $ **74** = $ **110**

+4   +70   ✱
36 40   110

FRACTIONS & DECIMALS

6 Colour one-half blue.

✱
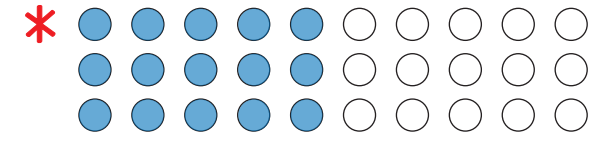
7 Colour one-quarter of each shape red.

✱

MONEY & FINANCIAL MATHEMATICS

8

2 DOLLARS 1 DOLLAR 50c 20c 5c

The total is
$ **3.75**

9 Draw the coins you could use to pay the exact amount for each item.

✱

apple • 60c | 20 20 20

orange • 75c | 50 10 10 5

PATTERNS & ALGEBRA

10 Write the next 3 numbers in each pattern.

150, 160, 170, **180** , **190** , **200**

155, 145, 135, **125** , **115** , **105**

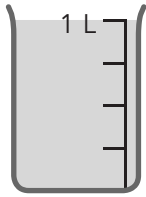**11** Complete the addition patterns.

46 + 6 = **52**	52 + 3 = **55**
56 + 6 = **62**	52 + 4 = **56**
66 + 6 = **72**	52 + 5 = **57**
76 + 6 = **82**	52 + 6 = **58**
86 + 6 = **92**	52 + 7 = **59**

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

12 This jug holds 1 L.

Choose and copy a label that best describes how much each container holds.

1 L

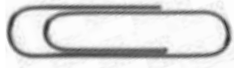| less than | about | more than |

Holds **less than** one-half litre

Holds **more than** one-quarter litre

13 Use the ruler to measure the length of each item.

3 cm

4 cm

1 2 3 4 5 6 cm

14 Read the scale. Write the mass in words.

2 3 4
1   5
0   6
kilograms

four kilograms

SHAPE

15 Write the numbers for each object.

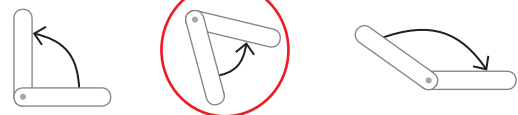|	Corners	Faces	Edges
(triangular pyramid)	4	4	6
(cylinder)	0	3	2
(square pyramid)	5	5	8

LOCATION & TRANSFORMATION

16 Draw the reflection of each shape on the other side of the blue line.

GEOMETRIC REASONING

17 Loop the angle that is less than a quarter turn.

STATISTICS & PROBABILITY

CHANCE ✱

18 List 2 events for each label.

Possible **going out to dinner, watching TV with Nan**

Impossible **seeing a fairy, sitting on a cloud**

Certain **doing homework, seeing friends at school**

DATA REPRESENTATION & INTERPRETATION

19

Year 3 Weekend Sports

Netball
Soccer
Swimming
Dance

Sport

0 1 2 3 4 5 6 7
Number of students

a. Which 2 sports together are less popular than dance?

netball   **swimming**

b. How many Year 3 students do sport on the weekend?

17