MENTAL MATHS

ADDITION & SUBTRACTION

$12 + 7 + 8 =$ **27**	$9 - 5 =$ **4**	**45** $- 17 = 28$
$11 + 9 + 6 =$ **26**	$5 - 4 =$ **1**	$42 -$ **23** $= 19$
$14 + 8 + 6 =$ **28**	$10 - 7 =$ **3**	**73** $- 12 = 61$
$13 + 5 + 7 =$ **25**	$4 - 2 =$ **2**	$20 -$ **5** $= 15$
$19 + 5 + 5 =$ **29**	$11 - 5 =$ **6**	**41** $- 7 = 34$

MULTIPLICATION & DIVISION

$6 \times 0 =$ **0**	**7** $\times 7 = 49$	$44 \div 11 =$ **4**
$6 \times 6 =$ **36**	$6 \times 8 =$ **48**	$88 \div 11 =$ **8**
$4 \times 6 =$ **24**	$4 \times$ **7** $= 28$	$11 \div 11 =$ **1**
$9 \times 6 =$ **54**	$8 \times 11 =$ **88**	$99 \div 11 =$ **9**
$5 \times 6 =$ **30**	**4** $\times 8 = 32$	$77 \div 11 =$ **7**

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the number then write the number words.

TTh T H T Ones
3 4251
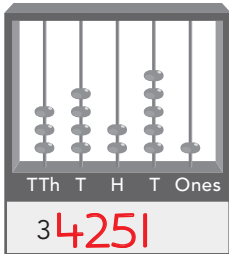
thirty-four thousand, two hundred and fifty-one

TTh T H T Ones
12 602
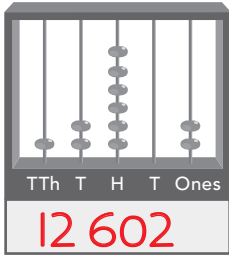
twelve thousand, six hundred and two

TTh T H T Ones
83 420
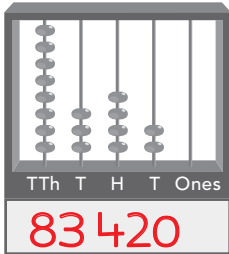
eighty-three thousand, four hundred and twenty

FRACTIONS & DECIMALS

2 Write the fraction and an equivalent fraction.

$\dfrac{1}{3} = \dfrac{2}{6}$ $\dfrac{4}{3} = \dfrac{8}{6}$ $\dfrac{7}{3} = \dfrac{14}{6}$

$\dfrac{2}{3} = \dfrac{4}{6}$ $\dfrac{5}{3} = \dfrac{10}{6}$ $\dfrac{8}{3} = \dfrac{16}{6}$
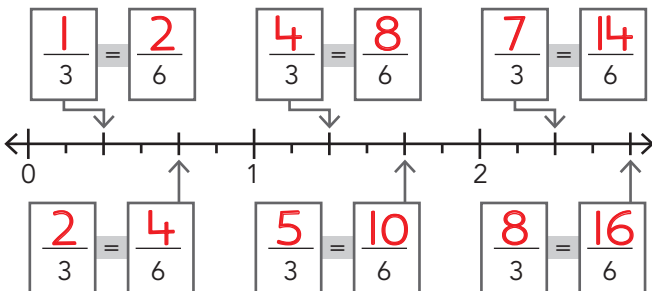
3 Write these improper fractions as mixed numerals.

$\dfrac{9}{4} = 2\dfrac{1}{4}$ $\dfrac{7}{6} = 1\dfrac{1}{6}$

$\dfrac{5}{4} = 1\dfrac{1}{4}$ $\dfrac{14}{6} = 2\dfrac{2}{6}$

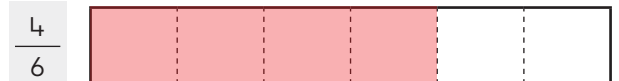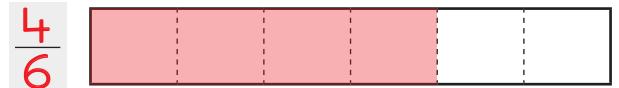$\dfrac{11}{4} = 2\dfrac{3}{4}$ $\dfrac{11}{6} = 1\dfrac{5}{6}$

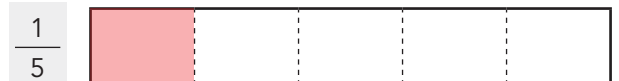$\dfrac{14}{4} = 3\dfrac{2}{4}$ $\dfrac{19}{6} = 3\dfrac{1}{6}$
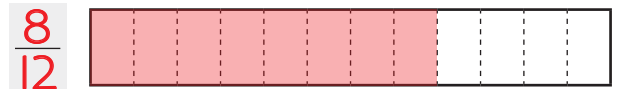
4 Shade the fraction. Write the equivalent fraction.

$\dfrac{2}{3}$

is the same as

$\dfrac{4}{6}$

$\dfrac{4}{6}$

is the same as

$\dfrac{8}{12}$

$\dfrac{1}{5}$

is the same as

$\dfrac{2}{10}$
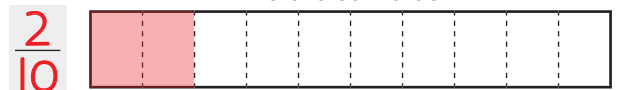
A **mixed numeral** has a whole number part and a fraction, for example, $4\frac{1}{4}$.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

5 Convert these measurements.

1000 g	1 kg	$\frac{3}{4}$ kg	**750** g
4000 g	4 kg	$1\frac{1}{2}$ kg	**1500** g
500 g	$\frac{1}{2}$ kg	$3\frac{1}{2}$ kg	**3500** g
3 kg	3000 g	$4\frac{1}{4}$ kg	**4250** g

6 Write masses to make these balance pictures true.

500g 500g | 1 kg

250g 250g 250g 250g | 1 kg

7 Loop the best measurement for each of these adult animals.
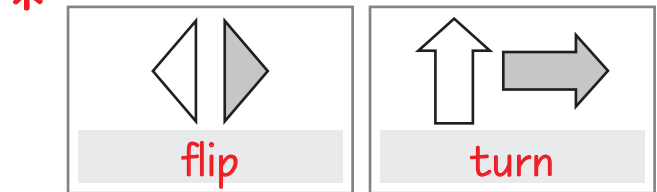
4 L
40 mm
10 cm
4 kg
(5 m)

3 cm   700 mL   2 km
(3000 mm)   1 L
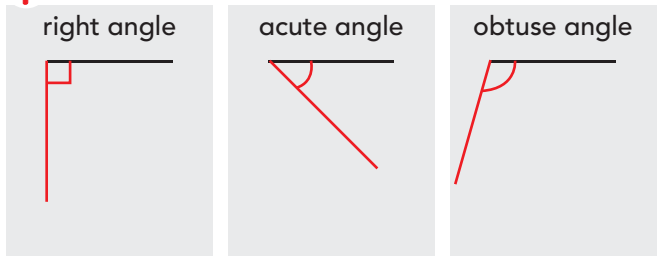
8 Draw a different shape that has the same area.

✱
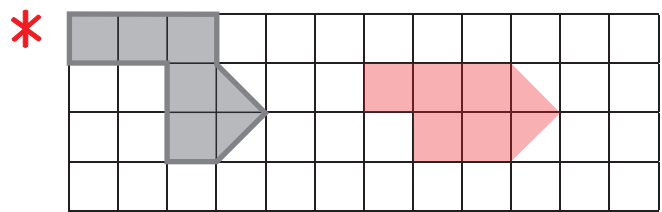
LOCATION & TRANSFORMATION

9 Write **flip**, **slide** or **turn** to describe how the white shape moves to cover the pink shape.

✱

flip

turn

GEOMETRIC REASONING

10 Draw another line to show each angle. Then mark the angle with an arc.

✱

right angle	acute angle	obtuse angle

STATISTICS & PROBABILITY

CHANCE

11

A

C

B

D

a. On which spinner is blue least likely? **A**

b. On which spinner is blue most likely? **B**

c. On which spinner are blue and red equally likely? **C**

d. Colour this spinner so that green is certain.

TESTER
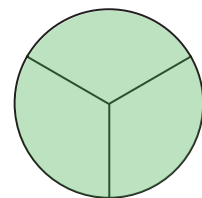
Shane has this money.
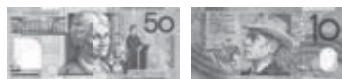
He wants to buy the phone.

Draw the extra notes and coins he needs to pay the exact price.

($19.65)

$79.65

Draw your answer in the box.

PARENT/CARER SIGNATURE _____   DATE _____

✱ Answers will vary. This is one example.

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

9 + 43 = **52**	30 + 40 = **70**	60 – 30 = **30**
57 + 9 = **66**	16 + 6 = **22**	19 – 3 = **16**
16 + 9 = **25**	90 + 70 = **160**	90 – 40 = **50**
32 + 9 = **41**	6 + 11 = **17**	12 – 7 = **5**
9 + 71 = **80**	80 + 40 = **120**	50 – 20 = **30**

MULTIPLICATION & DIVISION

8 × 8 = **64**	**3** × 8 = 24	44 ÷ 4 = **11**
4 × 7 = **28**	6 × 7 = **42**	64 ÷ 8 = **8**
5 × 8 = **40**	10 × **3** = 30	40 ÷ 4 = **10**
10 × 10 = **100**	4 × 9 = **36**	32 ÷ 8 = **4**
3 × 8 = **24**	8 × **8** = 64	24 ÷ 8 = **3**

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Rewrite each list in order from greatest to least.

21 864	**31 342**
28 009	**31 198**
31 342	**28 009**
21 940	**21 940**
31 198	**21 864**
20 997	**20 997**

41 876	**48 176**
48 176	**47 861**
47 861	**46 187**
46 187	**41 876**
41 678	**41 786**
41 786	**41 678**

2 Write the missing numbers.

halve / ÷ 2: 18 → **9**

halve / ÷ 2: 64 → **32**

halve / ÷ 2: **86** → 43

halve / ÷ 2: **108** → 54

halve / ÷ 2: 50 → **25**

halve / ÷ 2: **192** → 96

halve / ÷ 2: 246 → **123**

halve / ÷ 2: **294** → 147

FRACTIONS & DECIMALS

3 Draw lines to show the number of equal parts. ✱ Then shade the fraction.

$\frac{2}{3}$

$\frac{3}{6}$

$\frac{3}{5}$

$\frac{1}{4}$

$\frac{2}{10}$

$\frac{3}{5}$

$\frac{6}{10}$

$\frac{4}{5}$

4 Write equivalent fractions.

$\frac{2}{3}$ is the same as $\frac{4}{6}$

$\frac{3}{5}$ is the same as $\frac{6}{10}$

$\frac{7}{8}$ is the same as $\frac{14}{16}$

$\frac{3}{10}$ is the same as $\frac{6}{20}$

ℹ️ Fractions describe equal parts of one whole. For example, when one whole is divided into six equal parts, the fraction four-sixths describes four of the six equal parts.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

5 Convert these measurements.

10 mm = 1 cm	**100** cm = 1 m
1000 m = 1 km	**1000** mm = 1 m
1 cm = **10** mm	500 cm = **5** m
400 mm = **40** cm	2000 m = **2** km

6 1 cm represents 1 m. Use a ruler to measure the length. Then write the length in metres.

1 m

3 m

5 m

7 m

4 m

LOCATION & TRANSFORMATION

7

6   ☹ (F6) ⏱(F6 cloud) ↑
5   ☺   i   ❄(F5)
4   ●   ✱   ★
3   P
2   P   Z
1   🚗   i

A B C D E F G

a. Draw what is located on these grid squares.

E2	**Z**	F5	❄	B2	**P**	G1	**i**

b. Draw a ★ at G4.   **c.** Draw a cloud at E6.

d. Start at ● and follow these directions.

→2   ↓3   →4   ↑2   ←1   ↑2

Colour the end square blue.

GEOMETRIC REASONING

8 Mark all the right angles in this picture.
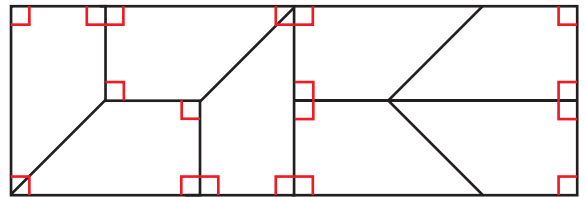
STATISTICS & PROBABILITY

CHANCE

9 This chart shows the number of times that a spinner stopped on each colour.

Colour	Tally
Green	卌 卌 |||
Yellow	||
Blue	卌

Colour the spinner to show what it might have looked like. ✱
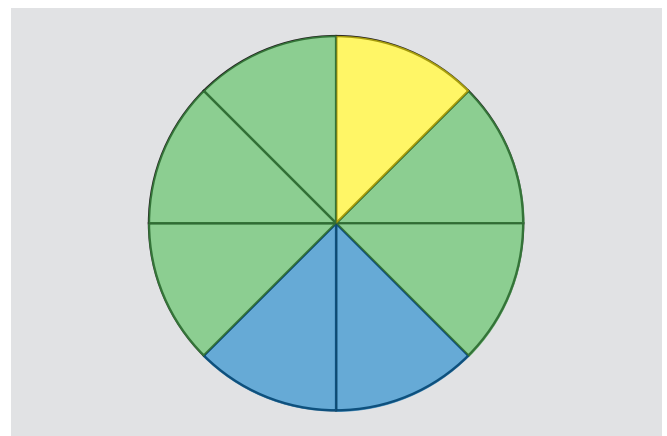
TESTER

Which fraction is **not** equivalent to $\frac{1}{2}$?

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

○   ○   ●   ○

Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

✻ Answers will vary. This is one example.

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

3 + 8 + 17 = **28**	40 – 10 = **30**	21 – 17 = **4**
8 + 12 + 4 = **24**	80 – 50 = **30**	16 – 7 = **9**
8 + 5 + 15 = **28**	140 – 90 = **50**	11 – 4 = **7**
6 + 16 + 4 = **26**	60 – 50 = **10**	15 – 11 = **4**
7 + 11 + 9 = **27**	90 – 40 = **50**	13 – 8 = **5**

MULTIPLICATION & DIVISION

8 × 11 = **88**	8 × 90 = **720**	18 ÷ 2 = **9**
3 × 4 = **12**	5 × 60 = **300**	70 ÷ 10 = **7**
7 × 8 = **56**	30 × 8 = **240**	35 ÷ 5 = **7**
4 × 6 = **24**	60 × 6 = **360**	12 ÷ 2 = **6**
9 × 3 = **27**	8 × 40 = **320**	28 ÷ 4 = **7**

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Complete these.

Two hundred is the same as **20** tens	3 thousand is the same as **30** hundreds
Forty is the same as **40** ones	500 is the same as **50** tens

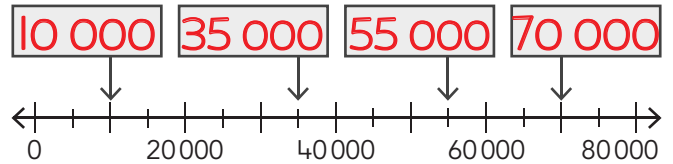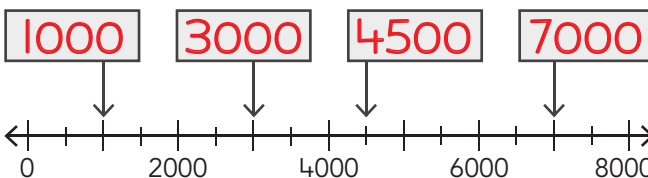**2** Write these numbers in words.

34 204 — **thirty-four thousand, two hundred and four**

16 521 — **sixteen thousand, five hundred and twenty-one**

3 Use all these digits. Make these numbers

6	2	8	0	2

- The greatest number possible: **8 6 2 2 0**
- A number as close to 20 000 as possible: **2 0 2 6 8**

4 Write the numbers in the boxes.

1000 **3000** **4500** **7000**

0   2000   4000   6000   8000

---

10 000 **35 000** **55 000** **70 000**

0   20 000   40 000   60 000   80 000

MONEY & FINANCIAL MATHEMATICS

5 ✻ Draw the extra notes and coins needed to pay the exact amount.

$59.60	50	**($9.60)**
$158.00	100	**($58)**
$120.80	20 50	**($100.30)**
$249.15	100 10	**($149.05)**

PATTERNS & ALGEBRA

6 Write = or ≠ to make true sentences.

3 + 40 + 5 **=** 6 × 8	100 ÷ 10 **≠** 95 – 75
140 + 35 **≠** 200 – 24	90 – 55 **=** 7 × 5
84 ÷ 7 **=** 3 × 4	8 + 16 **≠** 96 ÷ 3

ℹ️ When reading and writing **five-digit whole numbers**, the ten thousands and thousands are read and written together and so are the tens and ones.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

7 Convert these capacities.

1 L	**1000** mL	$\frac{1}{2}$ L	**500** mL
3 L	**3000** mL	$1\frac{1}{2}$ L	**1500** mL
4 L	4000 mL	$\frac{1}{4}$ L	250 mL
$1\frac{1}{4}$ L	**1250** mL	$\frac{3}{4}$ L	**750** mL

8 Write the missing numbers.

3:10
- **10** minutes past **3**
- **50** minutes to **4**

8:53
- **53** minutes past **8**
- **7** minutes to **9**

6:29
- **29** minutes past **6**
- **31** minutes to **7**

10:45
- **45** minutes past **10**
- **15** minutes to **11**
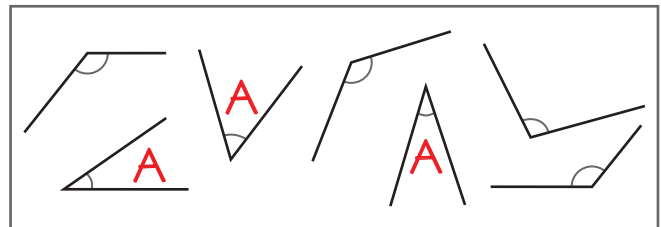
LOCATION & TRANSFORMATION

9 Draw and label these garden beds.
- Lettuce at I2, J2, K2
- Carrots at B2, B3, B4
- Spinach at F5, G5, H5
- Onions at B6, B7, C6, C7
- Pumpkin at G8, H8, I8, J8, K8, L8
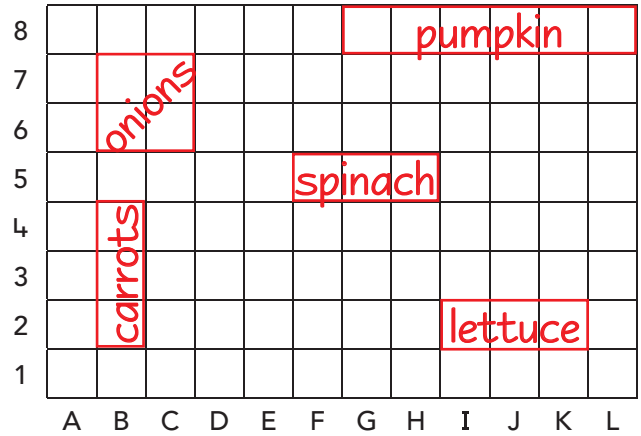
GEOMETRIC REASONING

10 Write **A** inside the acute angles.

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

11 Complete the picture graph to show this data.

Hours Slept in One Week	Total (hours)
Kevin	48
Brooke	56
Chris	44
Scott	40
Megan	52

Hours Slept in One Week   = 8 hours

Person

TESTER
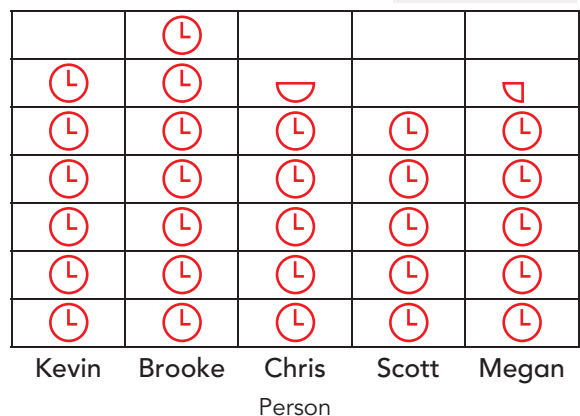
Look at the picture graph above.

Which 2 people slept for a total of 96 hours?

Kevin ○   **Brooke ●**   Chris ○   **Scott ●**   Megan ○

Colour two bubbles.

PARENT/CARER SIGNATURE _____ DATE _____

MENTAL MATHS

ADDITION & SUBTRACTION

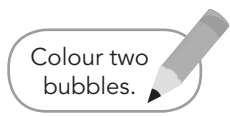|		
88 + 9 = **97**	20 − 18 = **2**	19 − **14** = 5
52 + 9 = **61**	14 − 6 = **8**	14 − **12** = 2
33 + 9 = **42**	10 − 3 = **7**	11 − **5** = 6
9 + 17 = **26**	12 − 7 = **5**	**22** − 8 = 14
24 + 9 = **33**	17 − 14 = **3**	**25** − 13 = 12
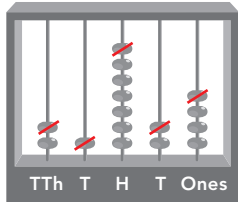
MULTIPLICATION & DIVISION

9 × 9 = **81**	**27** ÷ 3 = 9	18 ÷ 6 = **3**
12 × 10 = **120**	49 ÷ 7 = **7**	44 ÷ 11 = **4**
7 × 9 = **63**	**14** ÷ 7 = 2	88 ÷ 11 = **8**
9 × 4 = **36**	12 ÷ 3 = **4**	12 ÷ 6 = **2**
10 × 5 = **50**	**18** ÷ 3 = 6	22 ÷ 11 = **2**

NUMBER & ALGEBRA
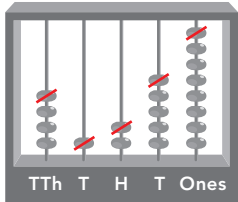
NUMBER & PLACE VALUE

1 Write the numbers **1000 less** and **1000 more**.

1000 less		1000 more
17 242	18 242	**19 242**
78 305	79 305	**80 305**
39 287	40 287	**41 287**
25 498	26 498	**27 498**
28 634	29 634	**30 634**
49 628	50 628	**51 628**
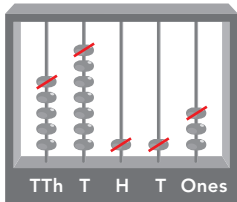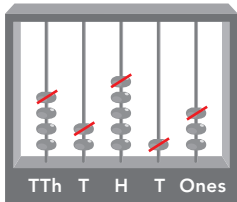
2 Write these numbers.

13 241	thirteen thousand, two hundred and forty-one
53 109	fifty-three thousand, one hundred and nine
85 063	eighty-five thousand and sixty-three
44 911	forty-four thousand, nine hundred and eleven
76 000	seventy-six thousand

3 Cross out one bead in each place. Write the new number.

TTh T H T Ones
New number
46 002

TTh T H T Ones
New number
31 402

TTh T H T Ones
New number
10 613

TTh T H T Ones
New number
30 147
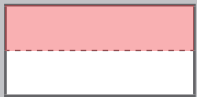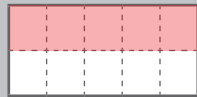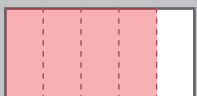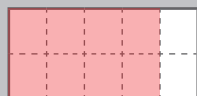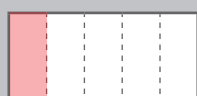
FRACTIONS & DECIMALS

4 Shade the fraction. Then complete and shade the equivalent fraction.

$\dfrac{1}{5}$ = $\dfrac{2}{10}$

$\dfrac{1}{2}$ = $\dfrac{5}{10}$

$\dfrac{4}{5}$ = $\dfrac{8}{10}$

$\dfrac{2}{10}$ = $\dfrac{1}{5}$

PATTERNS & ALGEBRA

5 Write the missing numbers.

7 × 9 = 42 + **19**	81 ÷ **3** = 54 − 27
36 + 48 = 12 × **7**	**7** × 36 = 28 × 9

ℹ You can find an **equivalent fraction** by multiplying (or dividing) the numerator and denominator by the same number.

USING UNITS OF MEASUREMENT

6 Draw a line to show where each time is on the timeline.

11:15 a.m.	11 a.m.	11:30 a.m.
11:49 a.m.		12:10 p.m.
12:45 p.m.	1 p.m.	1:30 p.m.
1:50 p.m.		2:00 p.m.
3:00 p.m.		2:45 p.m.
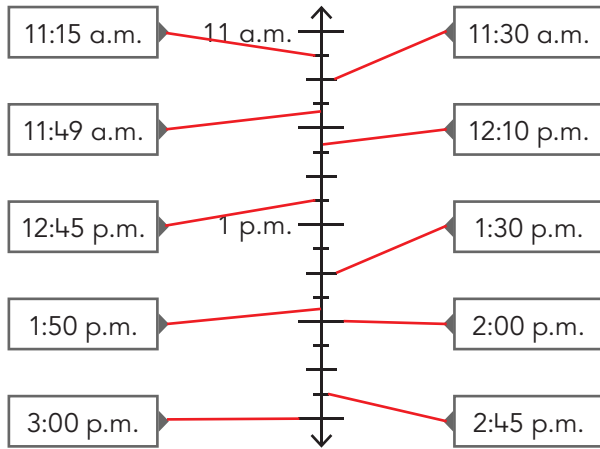
7 Write the total time in 2 different ways.

| 35 minutes and 50 minutes | **85** minutes |
| | **1** hour **25** minutes |

| 20 minutes and 58 minutes | **78** minutes |
| | **1** hour **18** minutes |

| 47 minutes and 42 minutes | **89** minutes |
| | **1** hour **29** minutes |

8 Use these store signs to calculate the answers.

Post Office	Milk Bar	Museum
Open 9 a.m. Closed 4:30 p.m.	Back in 20 minutes.	Closed at 1:30 for lunch.

How many hours is the Post Office open in one day?	$7\frac{1}{2}$
The museum closes for $1\frac{1}{2}$ hours for lunch. What time will it open after lunch?	**3:00**
The milk-bar owner left at 10:50 a.m. At what time will she be back?	**11:10**

SHAPE

9 Loop the rhombuses.

LOCATION & TRANSFORMATION

10 Draw each shape after a flip to the right.
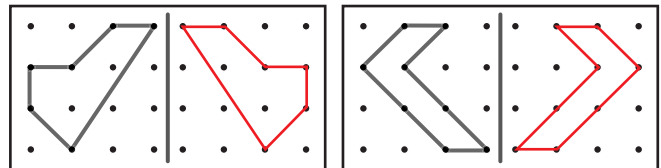
DATA REPRESENTATION & INTERPRETATION

11 Complete the Venn diagram to show this data.

Student	Bike	Scooter
Tim	✔	✗
Kate	✔	✔
Pip	✗	✔
Ken	✗	✗
Lilly	✔	✔
Tom	✔	✗
Sally	✗	✔
Mike	✔	✔

What Students Own

Bike — Tim, Tom

Bike & Scooter — Kate, Lilly, Mike

Scooter — Pip, Sally

Ken
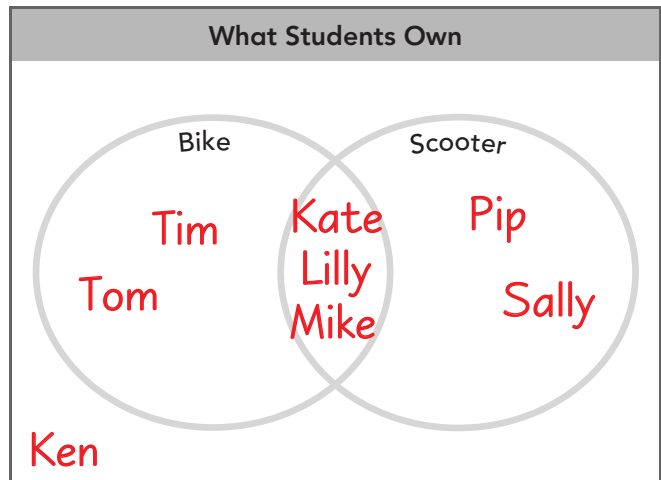
Jason bought these items for his lunch.

What was the total cost?

$4.99 $3.79   80c

- ○ $9.99
- ○ $9.80
- ○ $9.57
- ● $9.58

Colour one bubble.

PARENT/CARER SIGNATURE _____   DATE _____

MENTAL MATHS

ADDITION & SUBTRACTION

3 + 2 + 5 = 10   70 + 80 = 150   85 – 9 = 76

7 + 17 = 24   13 + 8 = 21   72 – 9 = 63

4 + 8 = 12   60 + 30 = 90   62 – 9 = 53

6 + 7 = 13   19 + 5 = 24   36 – 9 = 27

4 + 9 + 1 = 14   70 + 70 = 140   55 – 9 = 46

MULTIPLICATION & DIVISION

10 × 4 = 40   24 ÷ 3 = 8   35 ÷ 7 = 5

9 × 5 = 45   42 ÷ 7 = 6   12 ÷ 3 = 4

3 × 11 = 33   21 ÷ 7 = 3   12 ÷ 6 = 2

3 × 3 = 9   30 ÷ 3 = 10   32 ÷ 4 = 8

6 × 7 = 42   35 ÷ 7 = 5   24 ÷ 3 = 8

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the numbers to complete these.

	35 628	7465	65 784
1 more	35 629	7466	65 785
10 more	35 639	7476	65 795
100 more	35 739	7576	65 895
1000 more	36 739	8576	66 895
10 000 more	46 739	18 576	76 895

2 Multiply each number by the number in the centre. Write the answers around the outside.

72   126   90

36 — 2 — × 18 — 9 — 162

54   108   144

centre × 18, spokes: 4→72, 7→126, 5→90, 2→36, 9→162, 3→54, 6→108, 8→144
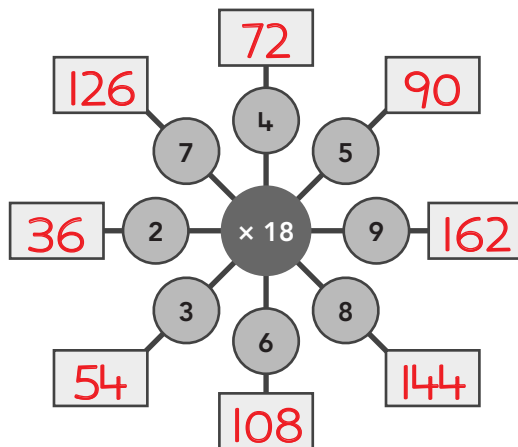
MONEY & FINANCIAL MATHEMATICS

3 Use a written method to calculate the total cost.

•$14.60 •$39.60
$39 + 10 + 4 = $53
60c + 60 = $1.20
Total = $ 54.20

•$18.90 •$13.20
$18 + 10 + 3 = $31
90c + 20 = $1.10
Total = $ 32.10

•$21.50 •$18.95
$21 + 10 + 8 = $39
95c + 50 = $1.45
Total = $ 40.45

•$27.70 •$19.90
$27 + 10 + 9 = $46
90c + 70 = $1.60
Total = $ 47.60

PATTERNS & ALGEBRA

4 Complete these. Use a pattern to help.

5 × 8 = 40
5 × 80 = 400
5 × 800 = 4000

4 × 7 = 28
4 × 70 = 280
4 × 700 = 2800

9 × 6 = 54
9 × 60 = 540
9 × 600 = 5400

13 × 3 = 39
13 × 30 = 390
13 × 300 = 3900

5 Write a multiplication fact to describe each part in this pattern.

1 + 3 = 4	2 × 2 = 4
1 + 3 + 5 = 9	3 × 3 = 9
1 + 3 + 5 + 7 = 16	4 × 4 = 16
1 + 3 + 5 + 7 + 9 = 25	5 × 5 = 25
1 + 3 + 5 + 7 + 9 + 11 = 36	6 × 6 = 36

ℹ You can **double and halve** the factors in a multiplication problem to make the multiplication easier. For example, when you *see* 8 × 15 *think* 4 × 30 or 2 × 60 is 120.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

6 Convert these measures of time.

120 seconds	2 minutes	**30** months	$2\frac{1}{2}$ years
4 seasons	1 year	**30** days	November
35 days	5 weeks	**12** hours	$\frac{1}{2}$ day
15 minutes	$\frac{1}{4}$ hour	**3** months	1 season

7 Look at these calendar months.

August						
S	M	T	W	T	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		

September						
S	M	T	W	T	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)

a. Write the date of each day circled.

Friday 11 Aug   Tuesday 5 Sept

Monday 14 Aug   Saturday 30 Sept

b. What day was 31 July?   Monday

c. How many Fridays in September?   5

d. How many weekend days in August?   8

e. Write the next 2 months after September.

October   November

SHAPE

8 Colour these shapes as shown.
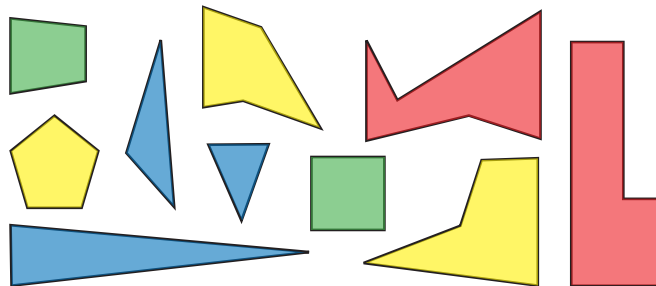
quadrilaterals	green	hexagons	red
triangles	blue	pentagons	yellow

GEOMETRIC REASONING

9 Count and record the different marked angles.

acute   3

right   3

obtuse   6

STATISTICS & PROBABILITY

CHANCE

10 Choose and copy a label that best describes each event.

impossible   50/50   likely

certain   unlikely

A biker wears a helmet.	likely
A baby born will be a girl.	50/50

This homework will do itself.	impossible
It will hail tomorrow morning.	unlikely
The telephone will ring at midnight.	unlikely
The day after Wednesday will be Thursday.	certain

TESTER

How many faces does this 3D object have?

7   ○
10   ● (filled)
8   ○
9   ○

Colour one bubble.

PARENT/CARER SIGNATURE _____   DATE _____

MENTAL MATHS
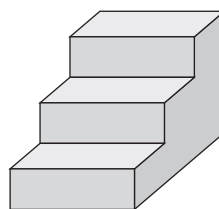
ADDITION & SUBTRACTION

$23 + 9 = 32$ $52 - 8 = 44$ $21 - 3 = 18$

$8 + 7 = 15$ $53 - 8 = 45$ $80 - 30 = 50$

$13 + 10 = 23$ $54 - 8 = 46$ $11 - 5 = 6$

$8 + 10 = 18$ $55 - 8 = 47$ $120 - 30 = 90$

$9 + 6 + 11 = 26$ $56 - 8 = 48$ $18 - 7 = 11$

MULTIPLICATION & DIVISION

$3 \times 6 = 18$ $45 \div 5 = 9$ $16 \div 8 = 2$

$8 \times 6 = 48$ $12 \div 2 = 6$ $25 \div 5 = 5$

$6 \times 10 = 60$ $14 \div 2 = 7$ $70 \div 10 = 7$

$2 \times 6 = 12$ $60 \div 5 = 12$ $42 \div 6 = 7$

$7 \times 6 = 42$ $35 \div 5 = 7$ $44 \div 11 = 4$

NUMBER & ALGEBRA

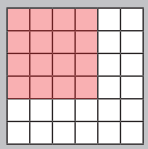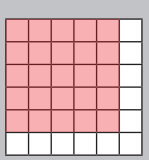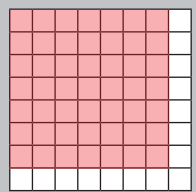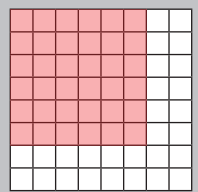### NUMBER & PLACE VALUE

1 Halve and double these numbers.

Halve (÷2)		Double (×2)
32	64	128
55	110	220
45	90	180
75	150	300
72	144	288
214	428	856

2 Shade the array to match each square number. Then write the answer.

$4 \times 4 = 16$

$5 \times 5 = 25$

$7 \times 7 = 49$

$6 \times 6 = 36$

3 Loop the expressions that match the answer in the middle.

70 × 40   70 × 30
280
(7 × 40)   (2 × 140)

(60 × 3)   30 × 8
180
(6 × 30)   30 × 60

4 Calculate these answers.

$6 \times 30 = 180$ $7 \times 10 = 70$ $8 \times 20 = 160$

$6 \times 8 = 18$ $7 \times 6 = 42$ $8 \times 6 = 48$

$6 \times 38 = 198$ $7 \times 16 = 112$ $8 \times 26 = 208$

(Number & place value diagrams:)

(80 × 3)   120 × 3
240
50 × 6   (6 × 40)

60 × 8   (100 × 4)
400
(8 × 50)   (80 × 5)

PATTERNS & ALGEBRA

5 Continue these counting patterns.

$\frac{1}{3}, \frac{2}{3}, \frac{3}{3}, \frac{4}{3}, \frac{5}{3}, \frac{6}{3}, \frac{7}{3}$

$1\frac{1}{4}, 1\frac{2}{4}, 1\frac{3}{4}, 2, 2\frac{1}{4}, 2\frac{2}{4}, 2\frac{3}{4}$

$1, \frac{9}{10}, \frac{8}{10}, \frac{7}{10}, \frac{6}{10}, \frac{5}{10}, \frac{4}{10}$

$6, 5\frac{1}{2}, 5, 4\frac{1}{2}, 4, 3\frac{1}{2}, 3$

$\frac{18}{9}, \frac{17}{9}, \frac{16}{9}, \frac{15}{9}, \frac{14}{9}, \frac{13}{9}, \frac{12}{9}$

---

i You can use a **place-value strategy** to multiply.
For example, when you *see* 5 × 35 *think* 5 × 30 plus 5 × 5 is 150 + 25 = 175.

USING UNITS OF MEASUREMENT

6 Show these times on the digital clocks.

seven forty-eight	**7:48**
3:47	thirteen minutes to four
8 minutes past 5	**5:08**
12:00	midday
quarter to three	**2:45**

7 Read the scale. Write the temperature.

28 °C **13** °C

5 °C **21** °C

8 Draw a line to show where each mass is on the scale.

1800 g   1500 g
1400 g   1000 g
900 g   700 g
500 g   200 g

2 kg
1 kg
0 kg

LOCATION & TRANSFORMATION

9

	A	B	C	D	E	F	G
6					=		$
5		#					
4			△		••		
3		×					
2			<				∿
1					✶		

Write the grid references for these symbols.

∿ **G2**   △ **C4**   # **B5**

× **B3**   •• **F4**   ✶ **E1**

DATA REPRESENTATION & INTERPRETATION

10

Words Spelt Incorrectly in a Test

Student: Ivy, Zac, Evie, Sam, Alex
Number of words (0–8)
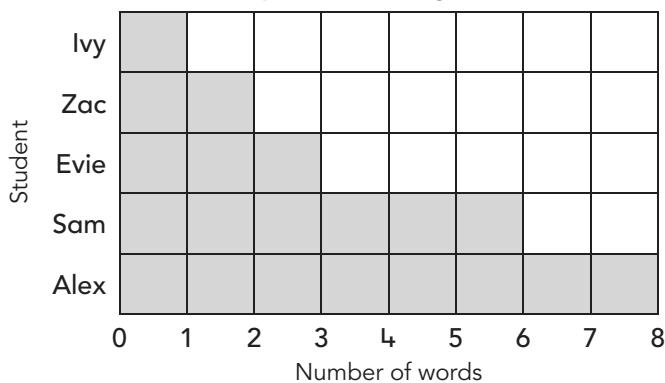
This graph shows the number of words some students spelt incorrectly in a recent test.

a. How many students had 3 or more words incorrect?   **2**

b. How many students had some words incorrect?   **5**

c. Which 2 students together had a total of 10 words incorrect?

Alex   **Zac**

d. Who had the fewest incorrect words?

Ivy

A farmer has 19 paddocks of sheep. There are 9 sheep in each paddock.

How many sheep altogether?   **171**

Write your answer in the box.

PARENT/CARER SIGNATURE _____   DATE _____

✳ Answers will vary. This is one example.

NAME _____

MENTAL MATHS

ADDITION & SUBTRACTION

35 + 10 = **45**	**22** + 12 = 34	21 – 13 = **8**
46 + 20 = **66**	14 + **14** = 28	45 – 16 = **29**
67 + 30 = **97**	16 + 16 = **32**	31 – 14 = **17**
38 + 50 = **88**	18 + **18** = 36	63 – 18 = **45**
59 + 20 = **79**	20 + 20 = **40**	92 – 15 = **77**

MULTIPLICATION & DIVISION

8 × 1 = **8**	18 ÷ 2 = **9**	18 ÷ 9 = **2**
8 × 5 = **40**	**20** ÷ 5 = 4	80 ÷ 10 = **8**
8 × 2 = **16**	30 ÷ 5 = **6**	27 ÷ 9 = **3**
8 × 10 = **80**	**24** ÷ 2 = 12	81 ÷ 9 = **9**
8 × 3 = **24**	25 ÷ 5 = **5**	60 ÷ 10 = **6**

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the numbers **just before** and **just after**.

16 019	16 020	**16 021**
29 408	29 409	**29 410**
32 698	32 699	**32 700**
64 799	64 800	**64 801**
85 367	85 368	**85 369**
29 999	30 000	**30 001**

FRACTIONS & DECIMALS

2 Each square represents one whole.
Shade squares to match each mixed numeral.

one and six-tenths

two and eight-tenths

one and five-tenths

3 Draw lines to connect matching fraction words and numbers.

eight-tenths   six-tenths   nine-tenths

one-tenth   three-tenths

0.6   0.3   0.9   0.1   0.8

3/10   8/10   6/10   9/10   1/10

MONEY & FINANCIAL MATHEMATICS

4 Draw the least number of notes and coins needed to pay the exact amount.

• $16.75 — 10, 5, $1, 50, 20, 5

• $75.20 — 50, 20, 5, 20

• $90.45 — 50, 20, 20, 20, 5, 20

• $104 — 100, $2, $2

• $30.15 — 20, 10, 10, 5

• $60.60 — 50, 10, 50, 10

ℹ In a decimal fraction, the **decimal point** indicates the digit that is in the ones place. Once you know this, you can work out the place value of all the other digits.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

5 Write these lengths in metres.

6.2 km	**6200** m	7.1 km	**7100** m
4.4 km	**4400** m	5.9 km	**5900** m
3.3 km	**3300** m	1.7 km	**1700** m
2.8 km	**2800** m	8.5 km	**8500** m
650 cm	**6.5** m	790 cm	**7.9** m
380 cm	**3.8** m	170 cm	**1.7** m

6 Draw a line to the position on the scale.

7 Choose and draw mass pieces that make each total.

✳

Mass pieces: 200 g, 100 g, 1 kg, 500 g, 250 g, 50 g

Total	Pieces
1.2 kg	1 kg, 200 g
$\frac{3}{4}$ kg	500 g, 250 g
$2\frac{1}{4}$ kg	1 kg, 1 kg, 250 g
650 g	500 g, 100 g, 50 g
$1\frac{3}{10}$ kg	1 kg, 200 g, 100 g
2800 g	1 kg, 1 kg, 500 g, 200 g, 100 g

LOCATION & TRANSFORMATION
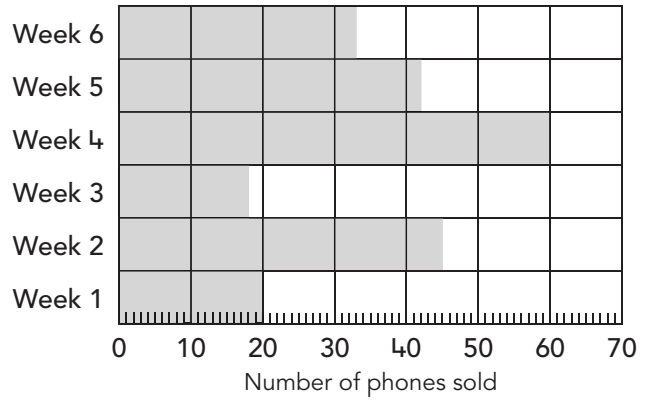
8 Draw all the mirror lines in each shape.

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

9 Use the bar graph to complete this table.

Week	Total Sold
1	20
2	45
3	18
4	60
5	42
6	33

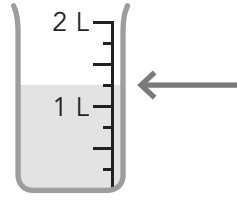**Phones Sold Over 6 Weeks**

Number of phones sold

TESTER

What amount of liquid is indicated by the arrow?

- 1500 mL ⬭
- 1750 mL ⬭
- 1000 mL ⬭
- 1250 mL 🔴

Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

MENTAL MATHS

ADDITION & SUBTRACTION

26 + 8 = **34**   **27** + 6 = 33   19 – 7 = **12**

23 + 7 = **30**   3 + **28** = 31   18 – 3 = **15**

27 + 4 = **31**   4 + 27 = **31**   17 – 6 = **11**

25 + 9 = **34**   **33** + 5 = 38   15 – 9 = **6**

28 + 6 = **34**   8 + **24** = 32   14 – 8 = **6**

MULTIPLICATION & DIVISION

9 × 30 = **270**   16 ÷ 4 = **4**   18 ÷ 9 = **2**

4 × 60 = **240**   48 ÷ 8 = **6**   36 ÷ 9 = **4**

3 × 30 = **90**   24 ÷ 4 = **6**   9 ÷ 9 = **1**

7 × 30 = **210**   40 ÷ 8 = **5**   90 ÷ 9 = **10**

5 × 90 = **450**   4 ÷ 4 = **1**   72 ÷ 9 = **8**

NUMBER & ALGEBRA

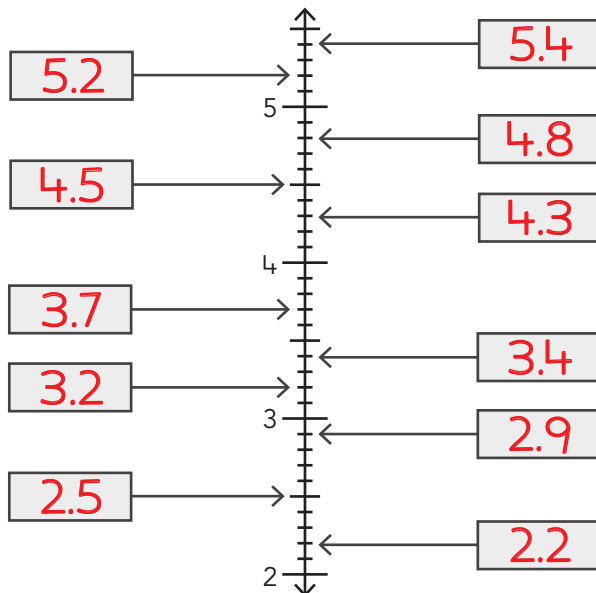### NUMBER & PLACE VALUE

1 Write the prices in order from least to greatest.

• $16 560
• $19 800
• $18 600
• $18 599
• $16 099
• $19 490

least
16 099
16 560
18 599
18 600
19 490
19 800
greatest

FRACTIONS & DECIMALS

2 Write the decimal in each box.

5.2

5.4

4.8

4.5

4.3

3.7

3.4

3.2

2.9

2.5

2.2

(number line marked 5, 4, 3, 2)

3 Complete the matching fractions.

$\frac{3}{5}$ is the same as $\frac{6}{10}$ is the same as 0.**6**

$\frac{1}{5}$ is the same as $\frac{2}{10}$ is the same as 0.**2**

$\frac{4}{5}$ is the same as $\frac{8}{10}$ is the same as 0.**8**

$\frac{2}{5}$ is the same as $\frac{4}{10}$ is the same as 0.**4**

PATTERNS & ALGEBRA

4 Write the answers. Use a pattern to help.

6 × 12 = **72**   4 × 15 = **60**

6 × 120 = **720**   4 × 150 = **600**

6 × 1200 = **7200**   4 × 1500 = **6000**

9 × 7 = **63**   8 × 6 = **48**

9 × 70 = **630**   8 × 60 = **480**

9 × 700 = **6300**   8 × 600 = **4800**

5 Write **<** or **>** to show true comparisons.

41 + 42 **<** 3 × 28   19 + 36 **>** 12 × 4

56 ÷ 7 **<** 72 ÷ 8   61 – 29 **<** 5 × 8

---

i When you **compare and order numbers**, look at the greatest place first.

USING UNITS OF MEASUREMENT

6 Convert these measurments

1 cm	**10** mm		100	cm **1 m**	
40 mm	**4** cm		**1000** mm	1 m	
384 cm	**3** m **84** cm		12 cm	**120 mm**	
35 cm	**350** mm		**800** cm	8000 mm	

7 Show the time on each clock.

25 minutes to 6 — **5 : 35**

2 : 52 — 8 minutes to 3

5 minutes to 9 — **8 : 55**

3 : 45 — quarter to 4

LOCATION & TRANSFORMATION
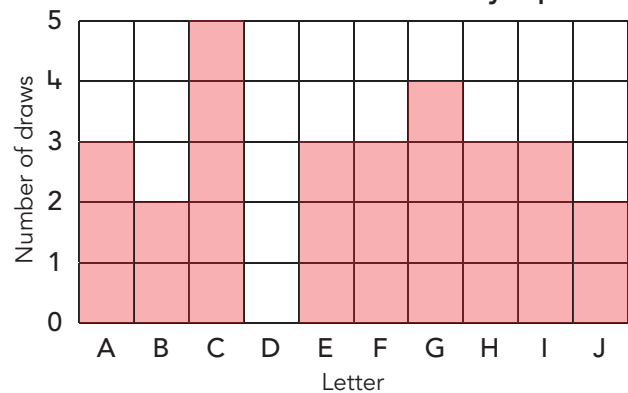
8 Draw each shape after the move.

one-quarter turn clockwise

half turn anticlockwise

three-quarter turn right

flip right

DATA REPRESENTATION & INTERPRETATION

9 Complete the graph to show the data.

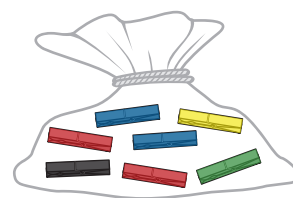| Letters Drawn From a Lucky Dip						
H	C	B	A	G	F	A
F	B	G	J	J	I	C
I	E	H	E	H	C	E
C	G	I	A	F	G	C

Letters Drawn From a Lucky Dip

Number of draws vs Letter (A–J)

TESTER

Thomas takes 2 pegs out of this bag at the same time.

Which outcome is impossible?

- ○ a blue and a black peg
- ○ two red pegs
- ● two green pegs
- ○ a yellow and a black peg

Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

NUMBER & PLACE VALUE

1 Complete these.

| Five thousand is the same as **50** hundreds | Eighty thousand is the same as **8000** tens |

2 Write the numbers.

69 472 — sixty-nine thousand, four hundred and seventy-two

14 307 — fourteen thousand, three hundred and seven

90 640 — ninety thousand, six hundred and forty

3 Write the numbers **100 less** and **1000 more**.

100 less		1000 more
19 219	19 319	**20 319**
46 099	46 199	**47 199**
36 530	36 630	**37 630**
35 530	35 630	**36 630**
28 909	29 009	**30 009**

4 Calculate the answers.

$5 \times 30 =$ **150**
$5 \times 9 =$ **45**
so $5 \times 39 =$ **195**

$8 \times 40 =$ **320**
$8 \times 3 =$ **24**
so $8 \times 43 =$ **344**

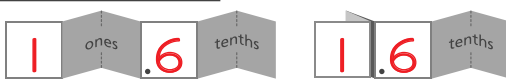**5** Solve these in your head. Write a number sentence to show your thinking.

a. $35 \times 18 =$ **630**   **35 x 10 + 35 x 8**

b. $12 \times 55 =$ **660**   **12 x 50 + 12 x 5**

c. $45 \times 16 =$ **720**   **45 x 10 + 45 x 6**

FRACTIONS & DECIMALS

6 Write each decimal on the expanders.

one and six-tenths

| 1 | ones | .6 | tenths |

| 1 | .6 | tenths |

nine and three-tenths

| 9 | ones | .3 | tenths |

| 9 | .3 | tenths |
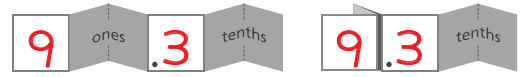
six and five-tenths

| 6 | ones | .5 | tenths |

| 6 | .5 | tenths |

7 Order these decimals from greatest to least.

| 4.9 | 3.4 | 2.7 | 3.6 | 1.9 | 3.8 | 4.1 |

4.9   4.1   3.8   3.6   3.4   2.7   1.9

8 Complete each of these.

$\frac{2}{5}$ is the same as $\frac{4}{10}$ is the same as 0.**4**

$\frac{3}{5}$ is the same as $\frac{6}{10}$ is the same as 0.**6**

$\frac{4}{5}$ is the same as $\frac{8}{10}$ is the same as 0.**8**

MONEY & FINANCIAL MATHEMATICS

9 Calculate the change from $20.

• $13.75
$20 – 13
$7 – 75c
Change
$ **6.25**

• $12.15
$20 – 12
$8 – 15c
Change
$ **7.85**

• $16.05
$20 – 16
$4 – 5c
Change
$ **3.95**

PATTERNS & ALGEBRA

10 a. Continue this oblong number pattern.

| 1 × 3 | 2 × 4 | 3 × 5 | **4 x 6** | **5 x 7** | **6 x 8** |

b. Continue this square number pattern.

| 1 × 1 | 2 × 2 | 3 × 3 | **4 x 4** | **5 x 5** | **6 x 6** |

NUMBER & ALGEBRA

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

11 Convert these lengths.

2 m = **200** cm	$\frac{1}{2}$ m = **50** cm	
6.2 km = **6200** m	250 mm = **25** cm	
5.5 m = **550** cm	$\frac{1}{4}$ m = **25** cm	
3.9 km = **3900** m	3200 m = **3.2** km	
3.5 m = **350** cm	6.1 m = **610** cm	

12 Look at this bus timetable. Complete the times.

7:15 a.m.	Queen St
7:22 a.m.	King St
7:30 a.m.	Museum
7:58 a.m.	Airport
8:10 a.m.	Martha St
8:14 a.m.	Hospital

a. How many minutes from Queen St to the hospital? **59**

b. How many minutes from the museum to the airport? **28**

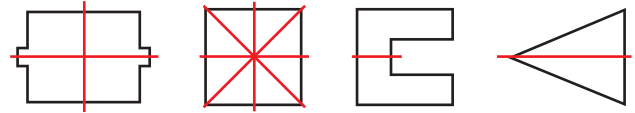**c.** How many minutes from King St to Martha St? **48**

SHAPE

13 Connect each label to a matching triangle.

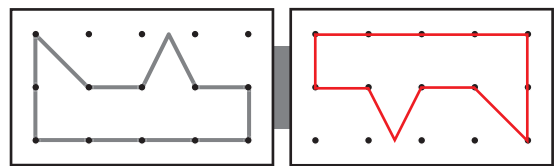scalene   right-angle   equilateral   isosceles
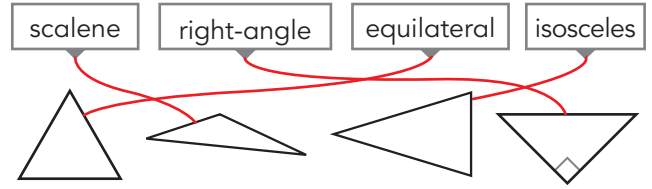
LOCATION & TRANSFORMATION
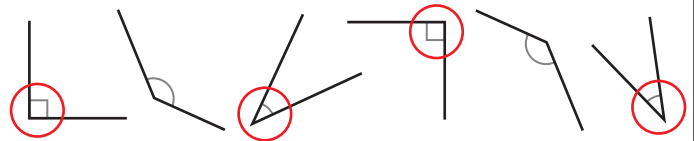
14 Draw all the mirror lines on these shapes.

15 Draw the shape after a half turn clockwise.

GEOMETRIC REASONING

16 Loop the angles that are less than an obtuse angle.

STATISTICS & PROBABILITY

CHANCE

17 Roll a regular die 5 times for each round and record the results. ✳

Round	Numbers Rolled	Total Rolled
1		
2		
3		
4		
5		

a. Which round had the greatest total?

b. Which round had the least total?

c. In which round or rounds were the most even numbers recorded?

d. Which number was rolled most often?

e. Which number was rolled least often?

DATA REPRESENTATION & INTERPRETATION

18 Use the table to complete the graph.

Family	Vehicles
Smith	3
Brown	2
Jones	3
Adams	1
Parks	5

Title: **Number of cars we own**

Number of vehicles vs Family (Smith, Brown, Jones, Adams, Parks)