NAME _____

STEP IT UP! 17

MENTAL MATHS

ADDITION & SUBTRACTION

24 + 25 = 49	20 + 14 = 34	28 − 17 = 11
27 + 28 = 55	18 + 8 = 26	24 − 14 = 10
21 + 22 = 43	17 + 6 = 23	21 − 14 = 7
22 + 26 = 48	17 + 5 = 22	35 − 15 = 20
25 + 27 = 52	9 + 22 = 21	25 − 8 = 17

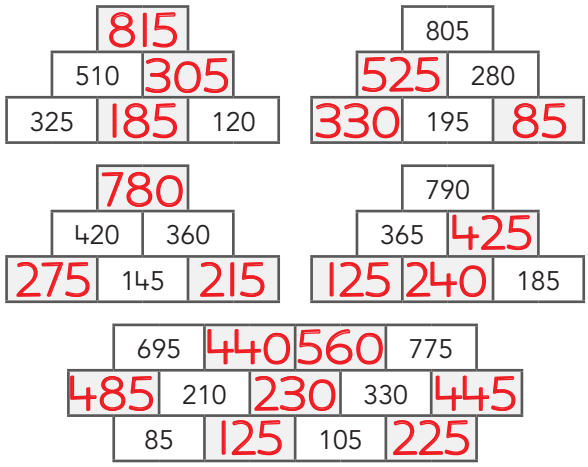
MULTIPLICATION & DIVISION

9 × 4 = 36	30 ÷ 10 = 3	150 ÷ 10 = 15
9 × 9 = 81	50 ÷ 10 = 5	200 ÷ 10 = 20
9 × 7 = 63	10 ÷ 10 = 1	500 ÷ 10 = 50
9 × 1 = 9	90 ÷ 10 = 9	130 ÷ 10 = 13
9 × 2 = 18	70 ÷ 10 = 7	110 ÷ 10 = 11

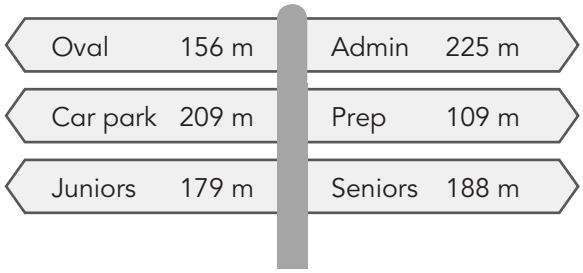
NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Each number is the total of the 2 numbers directly below. Write the missing numbers.



2 Look at the signpost.



Calculate these answers mentally.

a. What is the distance between:

Oval and Prep? 265 m

Car park and Admin? 434 m

Seniors and Juniors? 367 m

Car park and Seniors? 397 m

b. How much further from the sign is:

Admin than Oval? 69 m

Car park than Seniors? 21 m

Car park than Juniors? 30 m

Car park than Prep? 100 m

Admin than Juniors? 46 m

MONEY & FINANCIAL MATHEMATICS

3 Look at the table.

	Butter	Yoghurt
250 g	$2.65	$2.15
500 g	$4.95	$4.00
1 kg	$7.30	$5.85

a. How much more do 2 × 500 g tubs of butter cost than a 1 kg tub of butter? $ 2.60

b. If you bought 2 × 1 kg tubs of yoghurt with $20, what change would you get? $ 8.30

c. Is the cost of 4 × 250 g tubs of yoghurt **more** or **less** than a 1 kg tub of yoghurt? more

What is the difference in price? $ 2.75

d. What is the cheapest way to buy 2 kg of butter? 1 kg x 2

How much does it cost? $ 14.60

How much change from $20? $ 5.40

In a **chance event**, if there are 6 (different) possible outcomes, the chance of each event occurring can be described by the fraction $\frac{1}{6}$.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

4

It took Peter 35 minutes to drive to the shops. He arrived at 9:20 a.m. What time did he leave home?

8:45 a.m.

Jenny caught a taxi at 4:50 p.m. The trip takes 45 minutes. What time will she arrive at her destination?

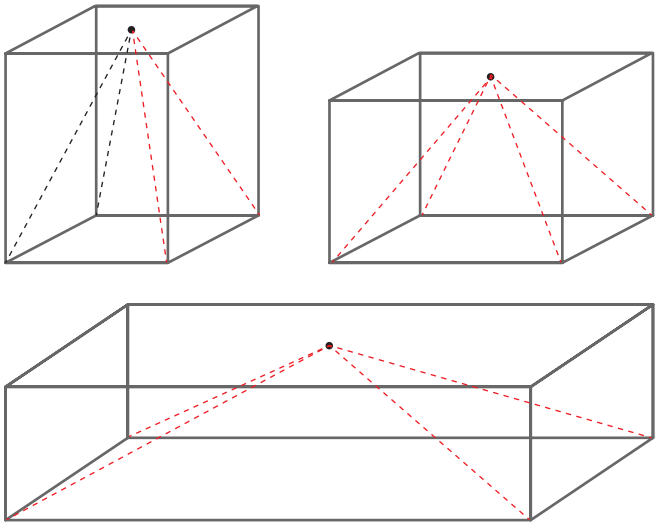
5:35 p.m.

A plane took off at 9:30 a.m. and landed at 1:05 p.m. on the same day. How long did the flight take?

3 hours 35 mins

SHAPE

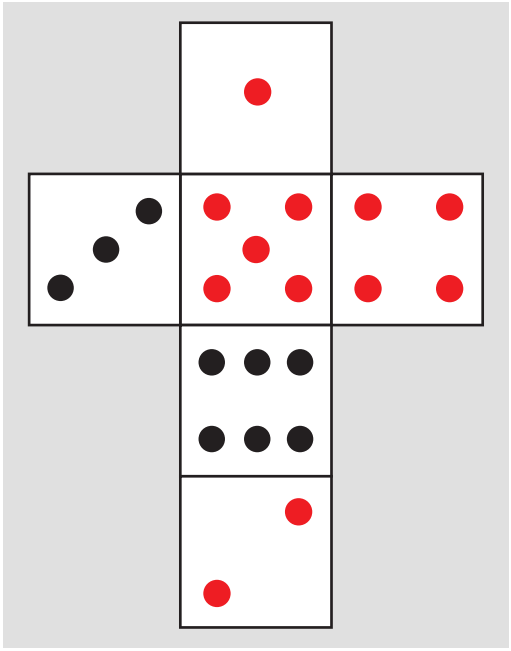
5 Draw a pyramid inside each prism.



STATISTICS & PROBABILITY

CHANCE

6 **a.** This is a net for a regular 6-sided die. Draw the remaining dots (numbers) on the net. Remember that the opposite faces of the die total 7.



b. Use this die net to complete the table.

Outcome	Number of ways to get the outcome	Number of possible outcomes altogether	Fraction to describe chance of the outcome
1	1	6	$\frac{1}{6}$
2	1	6	$\frac{1}{6}$
3	1	6	$\frac{1}{6}$
4	1	6	$\frac{1}{6}$
5	1	6	$\frac{1}{6}$
6	1	6	$\frac{1}{6}$
Even number	3	6	$\frac{3}{6}$ or $\frac{1}{2}$
Odd number	3	6	$\frac{3}{6}$ or $\frac{1}{2}$
7	0	6	$\frac{0}{6}$
4, 5 or 6	3	6	$\frac{3}{6}$ or $\frac{1}{2}$
1 or 2	2	6	$\frac{2}{6}$ or $\frac{1}{3}$
Fewer than 7	6	6	$\frac{6}{6}$

TESTER

Evin has this money in her wallet.

She buys a can of drink for $2.45, how much money will she have left?

Colour one bubble.

$9.05 ○ $6.60 ○ $6.55 ● $5.60

PARENT/CARER SIGNATURE _____ DATE _____

✱ Answers will vary. This is one example.

NAME _____

STEP IT UP! 18

MENTAL MATHS

ADDITION & SUBTRACTION

15 + 25 = 40	9 + 3 = 12	21 − 13 = 8
13 + 14 = 27	13 + 9 = 22	25 − 19 = 6
8 + 22 = 30	13 + 14 = 27	30 − 19 = 11
15 + 9 = 24	16 + 16 = 32	24 − 8 = 16
18 + 18 = 36	12 + 17 = 29	27 − 13 = 14

MULTIPLICATION & DIVISION

2 × 8 = 16	50 × 2 = 100	2 ÷ 2 = 1
5 × 2 = 10	12 × 2 = 24	20 ÷ 2 = 10
2 × 2 = 4	100 × 2 = 200	16 ÷ 2 = 8
2 × 6 = 12	2 × 20 = 40	8 ÷ 2 = 4
3 × 2 = 6	32 × 2 = 64	18 ÷ 2 = 9

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

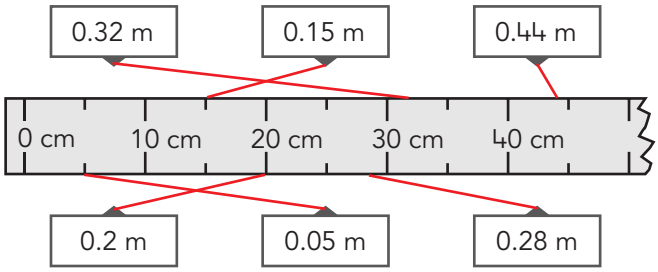
1 Use all these digits. Make these numbers.

0	6	1	9	3	5

- The greatest number possible: 9 6 5 3 1 0
- The least number possible: 1 0 3 5 6 9
- A number that is as close to $\frac{1}{2}$ million as possible: 5 0 1 3 6 9
- ✱ A number that is between 300 000 and 400 000: 3 6 5 0 9 1

FRACTIONS & DECIMALS

2 Match the measurement to the ruler.



3 Loop the greater length in each pair.

1.45 m or (1.53 m)	0.87 m or (1.03 m)
(2.6 m) or 2.57 m	2.17 m or (2.26 m)
(1.96 m) or 1.8 m	2 m or (2.09 m)

4 Write these in order from greatest to least.

1.78	1.17	1.71	1.83	1.87	1.38
1.87	1.83	1.78	1.71	1.38	1.17

MONEY & FINANCIAL MATHEMATICS

5 Write the change after each purchase.

Prices	Amount paid	Change
• $1.70 • $2.20		$ 1.10
• $1.80 • $1.80		$ 1.40
• $2.55 • $3.50		$ 3.95
• $6.30 • $5.90		$ 7.80
• $3.80 • $4.55		$ 11.65

PATTERNS & ALGEBRA

6 Add or subtract to create these number patterns.

Add 1100	Subtract 11 000
765 810	625 620
766 910	614 620
768 010	603 620
769 110	592 620
770 210	581 620
771 310	570 620
772 410	559 620

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

✱ Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

7 Write these times.

13 minutes to 10 — 9:47

1:34 — 26 minutes to 2

8 minutes to 6 — 5:52

10:39 — 21 minutes to 11

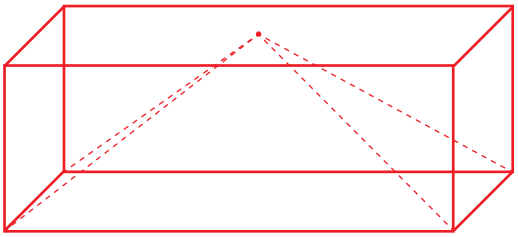
15 minutes to 7 — 6:45

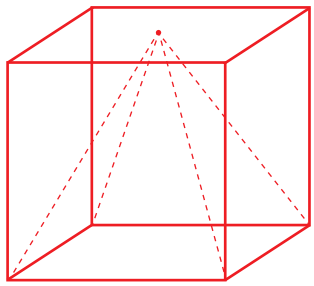
8 Convert these masses.

$\frac{1}{2}$ kg	500 g	$\frac{3}{4}$ kg	750 g
125 g	$\frac{1}{8}$ kg	50 g	$\frac{1}{20}$ kg
$\frac{1}{10}$ kg	100 g	$\frac{6}{10}$ kg	600 g
$1\frac{1}{4}$ kg	1250 g	250 g	$\frac{1}{4}$ kg

SHAPE

9 Use a ruler. Draw 2 different prisms.
✱ Then draw a pyramid inside each prism.

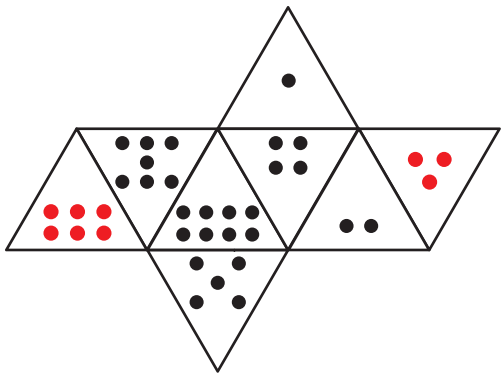




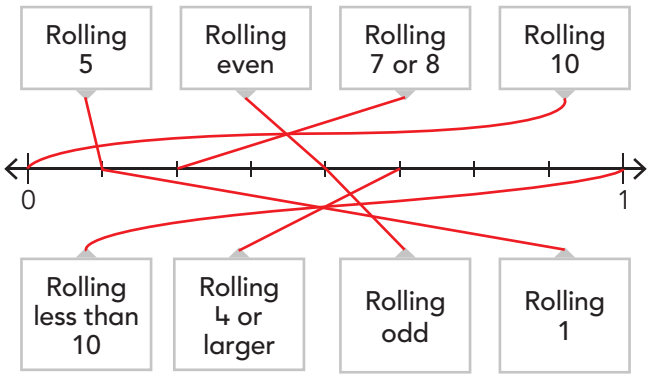
STATISTICS & PROBABILITY

CHANCE

10 **a.** Complete this net for an 8-sided die.



b. Draw a line to the fraction that describes the chance of each roll with the die at left.

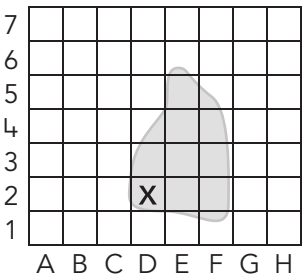


TESTER

The location of the treasure is marked with an **X**.

Which grid reference describes its location?

E2 ○ 2D ○ 3D ○ D2 ●



Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! 19

MENTAL MATHS

ADDITION & SUBTRACTION

10 + 48 = 58	41 – 10 = 31	54 – 9 = 45
7 + 8 = 15	9 – 5 = 4	81 – 9 = 72
8 + 17 = 25	15 – 6 = 9	25 – 9 = 16
3 + 15 = 18	29 – 10 = 19	34 – 9 = 25
46 + 10 = 56	70 – 50 = 20	75 – 9 = 66

MULTIPLICATION & DIVISION

4 × 3 = 12	3 × 20 = 60	4 ÷ 4 = 1
6 × 3 = 18	13 × 3 = 39	36 ÷ 4 = 9
10 × 3 = 30	3 × 30 = 90	16 ÷ 4 = 4
8 × 3 = 24	11 × 3 = 33	32 ÷ 4 = 8
3 × 1 = 3	3 × 14 = 42	24 ÷ 4 = 6

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

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

1000 less	624 328	502 240	658 214	799 225
	625 328	503 240	659 214	800 225
1000 more	626 328	504 240	660 214	801 225

2 Write these numbers.

eight hundred and sixty-two thousand, five hundred and nine: 862 509

two hundred and seventeen thousand, two hundred and thirty-four: 217 234

FRACTIONS & DECIMALS

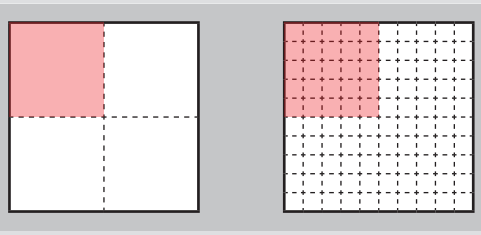
3 Write the number on the expander.

four and sixteen-hundredths: 4 ones . 1 6 hundredths

one and twenty-eight hundredths: 1 one . 2 8 hundredths

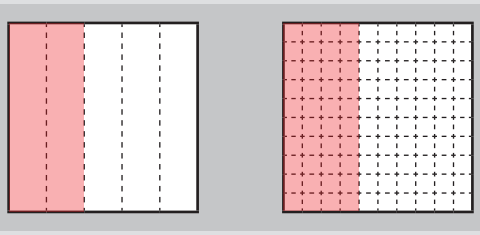
4 Shade then write equivalent fractions.

Shade $\frac{1}{4}$ of each.



$\frac{1}{4}$ is the same as $\frac{25}{100}$ is the same as 0.25

Shade $\frac{2}{5}$ of each.



$\frac{2}{5}$ is the same as $\frac{40}{100}$ is the same as 0.4

PATTERNS & ALGEBRA

5 Continue these number patterns.

3.0, 3.25, 3.5, 3.75, 4.0, 4.25, 4.5

1.23, 1.34, 1.45, 1.56, 1.67, 1.78, 1.89

6 **a.** Complete this table to show a pattern.

Picture number	1	2	3	4	5	10
Number of squares	6	8	10	12	14	24

b. Write a word rule that you can use to work out the number of squares in any picture.

Double the picture number, then add four to get the number of squares.

c. How many squares will there be in Picture 25? 54 squares

d. Which picture will have 100 squares in it? picture 48

An **acute angle** is less than a quarter turn, a **right angle** is the same as a quarter turn and an **obtuse angle** is greater than a quarter turn but less than a half turn.

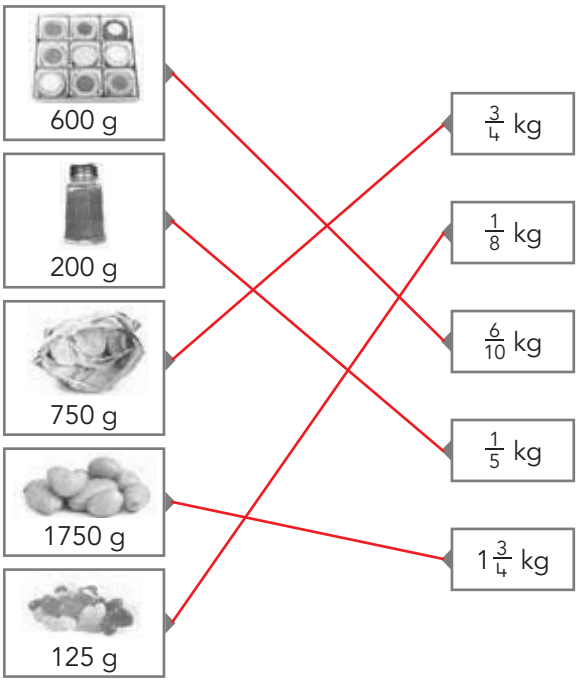
MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

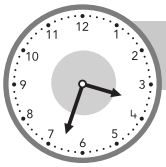
7 Convert these lengths.

1 m	100 cm	$\frac{1}{2}$ km	500 m
2 m	200 cm	0.48 m	48 cm
509 cm	5.09 m	4.2 km	4200 m
94 cm	0.94 m	2500 mm	2.5 m

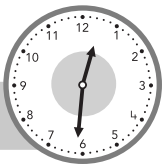
8 Draw lines to equivalent masses.



9 Write the times in 2 other ways.

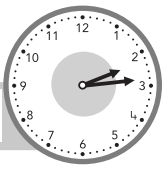


27 minutes to 4 — 3:33



12:31 — 29 minutes to 1

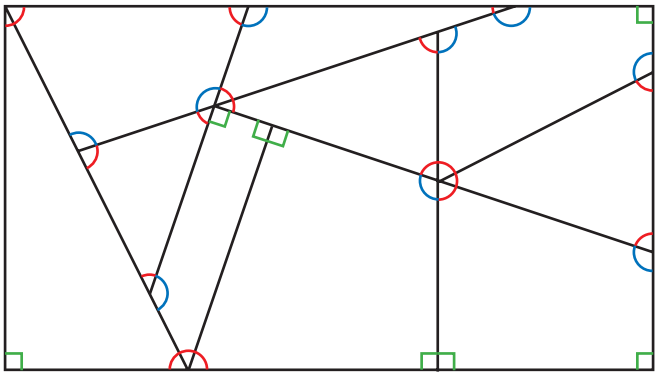
40 minutes past 12 — 12:40



2:14 — 14 minutes past 2

GEOMETRIC REASONING

10 Mark the acute angles in red. Mark the obtuse angles in blue. Mark the right angles in green.



STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

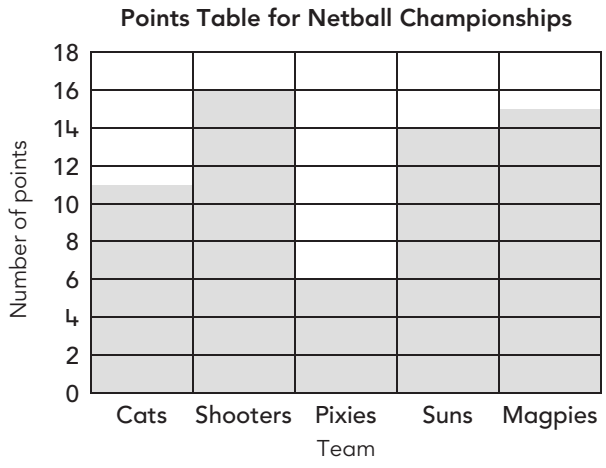
11 Look at the graph.

a. How many points were scored by the winning team? 16

b. What is the combined points total of the highest and lowest scoring teams? 22

c. How many more points were scored by the Cats than the Pixies? 5

d. What was the difference in points scored by the Magpies and the Cats? 4



TESTER

Joel is building a rectangular shed that has an area of 72 sq. metres.
The width of the shed is 6 metres.

What is the length? 12 m

Write your answer in the box.

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! 20

MENTAL MATHS

ADDITION & SUBTRACTION

13 + 3 = 16	5 + 8 = 13	20 – 13 = 7
11 + 5 = 16	7 + 8 = 15	19 – 11 = 8
18 + 8 = 26	15 + 4 = 19	15 – 12 = 3
9 + 5 = 16	8 + 9 = 17	21 – 5 = 16
3 + 8 = 11	7 + 4 = 11	24 – 18 = 6

MULTIPLICATION & DIVISION

4 × 3 = 12	100 × 4 = 400	20 ÷ 5 = 4
8 × 4 = 32	4 × 12 = 48	50 ÷ 5 = 10
6 × 4 = 24	20 × 4 = 80	35 ÷ 5 = 7
4 × 4 = 16	4 × 0 = 0	45 ÷ 5 = 9
2 × 4 = 8	4 × 11 = 44	5 ÷ 5 = 1

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write each list in order from least to greatest.

568 348	1 642 325	189 724	197 428
824 268	1 529 601	127 948	189 724
1 642 325	864 316	197 428	187 429
208 994	824 268	148 729	148 729
1 529 601	568 348	129 487	129 487
864 316	208 994	187 429	127 948

FRACTIONS & DECIMALS

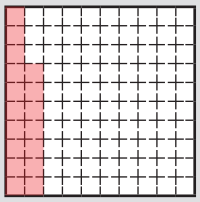
2 Write these numbers in words.

2.14	two and fourteen hundredths
8.63	eight and sixty-three hundredths
5.09	five and nine hundredths
11.41	eleven and forty-one hundredths
16.20	sixteen and twenty hundredths

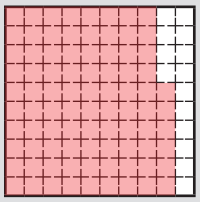
3 Write the numbers.

one and fifty-four thousandths	1.054
twelve and thirty-eight hundredths	12.38
six and nine-hundredths	6.09
twenty-one and sixty-hundredths	21.60
seventeen and thirty-five hundredths	17.35

4 Shade then write the fraction or decimal.



0.17 is the same as $\frac{17}{100}$



$\frac{86}{100}$ is the same as 0.86

5 Write these in order from greatest to least.

$\frac{1}{5}$	0.55	$\frac{6}{10}$	0.7	$\frac{1}{4}$	0.4
0.7	$\frac{6}{10}$	0.55	0.4	$\frac{1}{4}$	$\frac{1}{5}$

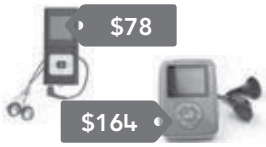
MONEY & FINANCIAL MATHEMATICS

6 Work out how much money is saved by buying the cheaper item.

$68 95c
−$34 −60c
$34 35c
$34.35

532 232
−300 −81
232 151
$151.00

$90 95c
−$29 −90c
$61 5c
$61.05



164 94
−70 −8
94 86
$86.00

When reading and writing **numbers involving tenths and hundredths**, the tenths and hundredths are read and written together.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

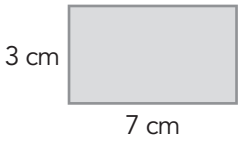
7 Convert these measurements.

1 year =	365 days	$\frac{1}{4}$ of a day =	6 hours
2 years =	24 months	1 year =	52 weeks
77 days =	11 weeks	1 fortnight =	2 weeks
leap year =	366 days	72 hours =	3 days

8 Calculate then write the perimeter for each oblong.

Perimeter = 48 cm

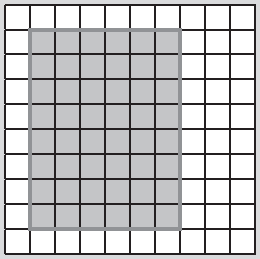
Perimeter = 20 cm



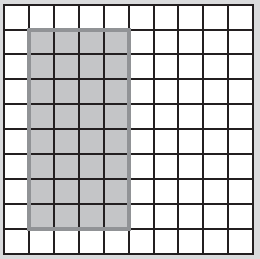
Perimeter = 26 cm

Perimeter = 50 cm

9 Calculate the area of these oblongs.



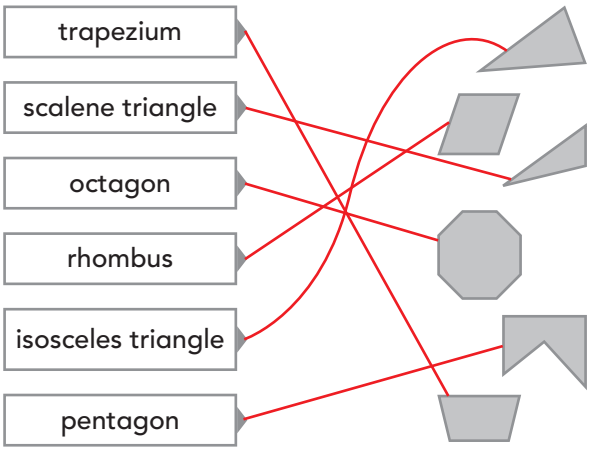
Length = 8 units
Width = 6 units
Area = 48 sq. units



Length = 8 units
Width = 4 units
Area = 32 sq. units

SHAPE

10 Connect each label to the matching shape.

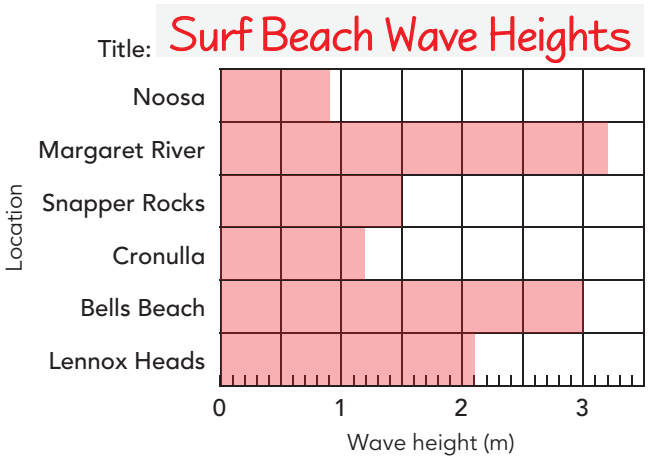


STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

11 Use this table to complete the graph.

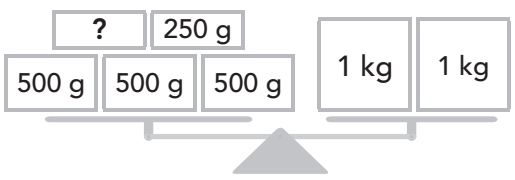
Wave heights recorded at surf beaches	
Noosa	0.9 m
Margaret River	3.2 m
Snapper Rocks	1.5 m
Cronulla	1.2 m
Bells Beach	3 m
Lennox Head	2.1 m



TESTER

Which mass will make this balance picture true?

500 g ☐ 1 kg ☐ 50 g ☐ 250 g ●



Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! 21

MENTAL MATHS

ADDITION & SUBTRACTION

13 + 4 = 17	17 – 3 = 14	80 – 60 = 20
6 + 7 = 13	70 – 60 = 10	120 – 30 = 90
10 + 3 = 13	12 – 8 = 4	90 – 50 = 40
6 + 11 = 17	130 – 40 = 90	110 – 90 = 20
18 + 5 = 23	120 – 60 = 60	70 – 30 = 40

MULTIPLICATION & DIVISION

5 × 6 = 30	5 × 15 = 75	24 ÷ 6 = 4
5 × 9 = 45	5 × 20 = 100	48 ÷ 6 = 8
5 × 1 = 5	5 × 12 = 60	30 ÷ 6 = 5
5 × 4 = 20	5 × 30 = 150	42 ÷ 6 = 7
5 × 3 = 15	5 × 11 = 55	36 ÷ 6 = 6

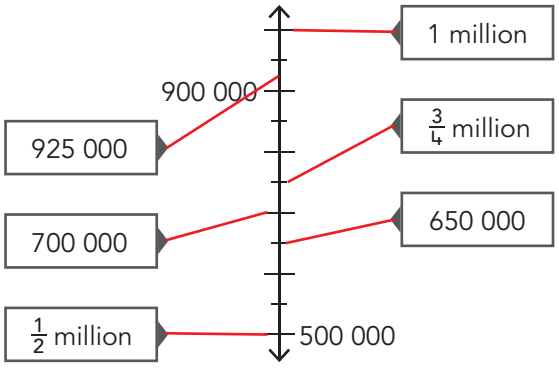
NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the value of the red digit in words.

642 583	four ten thousands
862 429	eight hundred thousands
4 201 824	four millions
1 243 472	four hundreds
3 628 389	eight tens

2 Draw a line to show where each number will be on the number line.



3 Use a written method to solve these.

60 x 5 = 300
4 x 5 = 20
64 × 5 = 320

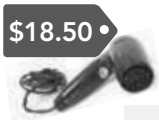
200 x 6 = 1200
40 x 6 = 240
8 x 6 = 48
248 × 6 = 1488

4 Calculate each partial product and then write the total.

5 × 72 = 360	9 × 65 = 585
(5 × 70) + (5 × 2)	(9 × 60) + (9 × 5)
350 + 10	540 + 45
4 × 84 = 336	6 × 58 = 348
(4 × 80) + (4 × 4)	(6 × 50) + (6 × 8)
320 + 16	300 + 48

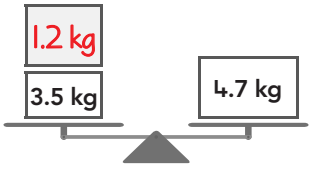
MONEY & FINANCIAL MATHEMATICS

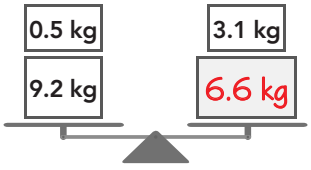
5 Work out the cost of buying 2.

$4.80  Total $ 9.60	$15.70  Total $ 31.40
$5.90  Total $ 11.80	$18.50  Total $ 37.00

PATTERNS & ALGEBRA

6 Write the mass to make each balance picture true.





You can use a written method or a calculator when the **numbers are "messy"** and too hard to multiply in your head.

✱ Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

7 Write each time on the digital clock.

twenty-one minutes past six — 6:21

5:48 — five forty-eight

eleven minutes to seven — 6:49

12:06 — six minutes past twelve

thirteen minutes to two — 1:47

8 Write the missing amounts.

a. 850 mL + 150 mL = 1 L

b. 125 mL + 875 mL = 1 L

c. 380 mL + 620 mL = 1 L

d. 50 mL + 950 mL = 1 L

e. 770 mL + 230 mL = 1 L

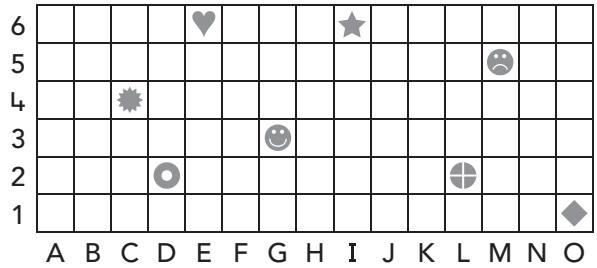
f. 275 mL + 725 mL = 1 L

g. 463 mL + 537 mL = 1 L

9 Draw an oblong to match each label.

LOCATION & TRANSFORMATION

10



a. What is located at these grid squares?

G3 ☺ | M5 ☹ | I6 ★ | C4 ✹

b. What is the grid reference for each of these?

⊕ L2 | ♥ E6 | ◆ 01 | ◎ D2

STATISTICS & PROBABILITY

CHANCE

11 Choose and write a label to match each event.

✱

impossible | unlikely | 50/50 | likely | certain

a. I will be awake at midnight tonight.

unlikely

b. I will see snow falling tomorrow.

unlikely

c. A baby born in a hospital will be a girl.

50 / 50

d. The sun will shine at some time tomorrow.

likely

e. A dog will fly past my window.

impossible

f. I will not go to school on Saturday.

certain

TESTER

Which calculation is incorrect?

Colour one bubble.

$^{5}56 \times 9 = 504$	$^{5}57 \times 8 = 456$	$^{6}59 \times 7 = 412$	$^{4}58 \times 6 = 348$
○	○	●	○

PARENT/CARER SIGNATURE _____ DATE _____

✱ Answers will vary. This is one example.

NAME _____

STEP IT UP! 22

MENTAL MATHS

ADDITION & SUBTRACTION

60 + 20 = 80	60 + 70 = 130	11 – 5 = 6
3 + 4 = 7	90 + 60 = 150	12 – 8 = 4
40 + 80 = 120	120 + 40 = 160	10 – 7 = 3
12 + 3 = 15	30 + 110 = 140	14 – 5 = 9
20 + 30 = 50	80 + 70 = 150	15 – 8 = 7

MULTIPLICATION & DIVISION

3 × 6 = 18	6 × 11 = 66	7 ÷ 7 = 1
5 × 6 = 30	24 × 5 = 120	49 ÷ 7 = 7
8 × 6 = 48	6 × 12 = 72	42 ÷ 7 = 6
2 × 6 = 12	15 × 6 = 90	63 ÷ 7 = 9
1 × 6 = 6	6 × 100 = 600	14 ÷ 7 = 2

NUMBER & ALGEBRA

NUMBER & PLACE VALUE ✱

1 Complete these problems. Show your working.

GO CARTS	MUSEUM	FAIR	MOVIE
$28	$32	$26	$15

How much will it cost 22 children to use the go carts?

22 x 20 = 440
22 x 8 = 176

Total $ 616

How much will it cost 28 students to see a movie?

28 x 10 = 280
28 x 5 = 140

Total $ 420

How much will it cost 35 children to visit the museum?

35 x 30 = 1050
35 x 2 = 70

Total $ 1120

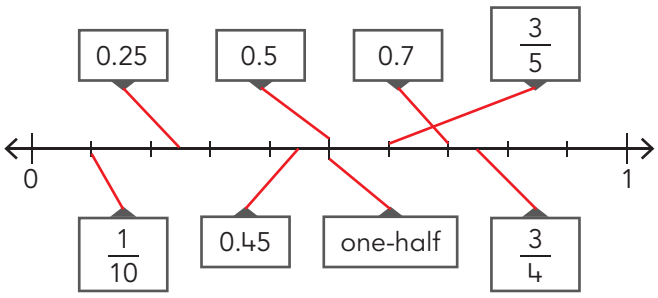
How much will it cost 45 students to attend the fair?

45 x 20 = 900
45 x 6 = 270

Total $ 1170

FRACTIONS & DECIMALS

2 Connect each fraction and decimal to the correct position on the number line.



3 Write these decimals as common fractions.

0.71 = 71/100	0.29 = 29/100	0.07 = 7/100
0.5 = 50/100 = 1/2	0.8 = 80/100 = 4/5	
0.25 = 25/100 = 1/4	0.4 = 40/100 = 2/5	
0.75 = 75/100 = 3/4	0.9 = 90/100 = 9/10	

MONEY & FINANCIAL MATHEMATICS

4 Calculate the total cost.

• $5.99 kg	Buy 5.	Total = $29.95
• $3.98 kg	Buy 6.	Total = $23.88
• $8.49 kg	Buy 5.	Total = $42.45
• $5.48 kg	Buy 6.	Total = $32.88

PATTERNS & ALGEBRA

5 Complete this multiplication chart.

27 × 2 = 54	27 × 3 = 81	27 × 4 = 108
27 × 20 = 540	27 × 30 = 810	27 × 40 = 1080

ⓘ You can **use factors** or a **double-and-halve strategy** to multiply 2 two-digit numbers. For example, when you *see* 12 × 45 *think* 6 × 2 × 5 × 9 (54 × 10) or 6 × 90 = 540.

* Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

6 Convert these masses.

1000 g	1 kg	$1\frac{3}{4}$ kg	1750 g
3.2 kg	3200 g	5200 g	5.2 kg
$\frac{8}{10}$ kg	800 g	3.8 kg	3800 g
1600 g	1.6 kg	$1\frac{1}{4}$ kg	1250 g

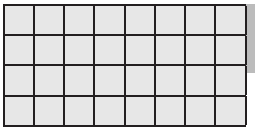
7 Complete the table to calculate the number of cubes in each prism.

Prism	Dimensions of Base	Height	Total
A	4 cm × 5 cm	6 cm	120 cm cubes
B	3 cm × 7 cm	3 cm	63 cm cubes
C	2 cm × 3 cm	6 cm	36 cm cubes

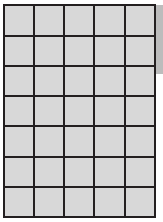
8 Work out possible dimensions for these prisms. *

Prism	Dimensions of Base	Height	Total
A	3 cm × 2 cm	5 cm	30 cm cubes
B	2 cm × 4 cm	10 cm	80 cm cubes
C	5 cm × 4 cm	6 cm	120 cm cubes
D	8 cm × 2 cm	10 cm	160 cm cubes

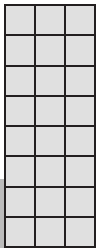
9 Calculate the area of each oblong.



Area = 32 sq. units



Area = 35 sq. units

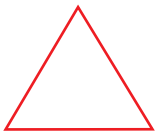


Area = 24 sq. units

SHAPE

10 Draw these triangles.

Equilateral triangle with side length of 20 mm



Scalene triangle with one side 45 mm long

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

11 This table shows the height of a plant over 8 weeks.

Week	Height (cm)	Growth (cm)
1	1	1
2	2	1
3	4	2
4	6	2
5	8	2
6	13	5
7	16	3
8	17	1

a. Calculate the growth each week and complete the table.

b. Did the plant grow by the same amount each week? no

c. What is the difference in height from Week 1 to Week 4? 5 cm

d. * What happened to the height of the plant as the number of weeks increased?

The growth rate increased up to week 6 but then it declined to only 1 cm in week 8.

TESTER

Look at the ice-cream menu.

How many different combinations can be made?

6 ○ 8 ○ 9 ● 10 ○

Ice Cream
vanilla
mango
strawberry

Toppings
chocolate
caramel
nuts

Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! 23

MENTAL MATHS

ADDITION & SUBTRACTION

7 + 7 = 14	9 + 7 = 16	23 – 10 = 13
8 + 6 = 14	10 + 12 = 22	48 – 10 = 38
9 + 9 = 18	12 + 9 = 21	16 – 8 = 8
3 + 8 = 11	11 + 11 = 22	37 – 10 = 27
5 + 6 = 11	9 + 15 = 24	13 – 6 = 7

MULTIPLICATION & DIVISION

7 × 3 = 21	7 × 20 = 140	8 ÷ 8 = 1
7 × 6 = 42	11 × 7 = 77	72 ÷ 8 = 9
7 × 1 = 7	7 × 50 = 350	48 ÷ 8 = 6
7 × 4 = 28	100 × 7 = 700	40 ÷ 8 = 5
7 × 9 = 63	7 × 12 = 84	56 ÷ 8 = 7

NUMBER & ALGEBRA

FRACTIONS & DECIMALS

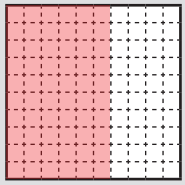
1 Look at this table.

Preferred Sport	
Sport	Number of Votes
Cricket	1
Netball	20
Soccer	55
Tennis	5
Softball	10

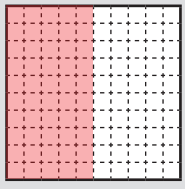
What fraction of 100 voted for these sports?

Netball	$\frac{20}{100}$	or 0.2
Cricket	$\frac{1}{100}$	or 0.01
Soccer	$\frac{55}{100}$	or 0.55
Tennis	$\frac{5}{100}$	or 0.05

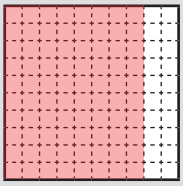
2 Complete the pieces to match.



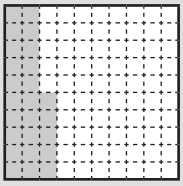
$= \frac{6}{10} = \frac{60}{100} =$ 0.6



$= \frac{50}{100} = \frac{50}{100} =$ 0.5



$= \frac{4}{5} = \frac{80}{100} =$ 0.8



$= \frac{1}{4} = \frac{25}{100} =$ 0.25

PATTERNS & ALGEBRA

3 Write the missing numbers in each pattern.

70, 140, 210, 280, 350, 420

0.25, 0.30, 0.35, 0.4, 0.45, 0.5

5.12, 6.12, 7.12, 8.12, 9.12, 10.12

2.6, 3.7, 4.8, 5.9, 6.1, 7.2

25, 250, 2500, 25000, 250000

4 Complete this multiplication chart.

38 × 2 = 76	38 × 3 = 114	38 × 4 = 152
38 × 20 = 760	38 × 30 = 1140	38 × 40 = 1520

A **net** is a flat model that can be folded to form a 3D object such as a pyramid or prism.

* Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

5 Write these as 12-hour times. Use a.m. or p.m.

$4\frac{1}{2}$ hours after midnight	4:30 a.m.
6.5 hours after midday	6:30 p.m.
7 hours before noon	5:00 a.m.

6 Write these as 24-hour times.

7:30 p.m.	19:30	8 p.m.	20:00
11 a.m.	11:00	10:23 a.m.	10:23
6:45 a.m.	06:45	5:59 p.m.	17:59
1:15 p.m.	13:15	2 a.m.	02:00

7 Write the months.

Autumn	Summer
March	December
April	January
May	February

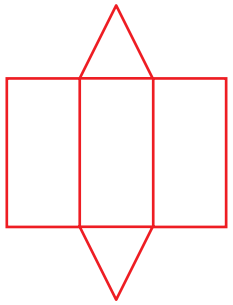
8 Write the months that have 30 days.

September	April
June	November

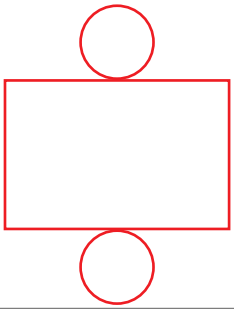
SHAPE

9 Draw a net for each 3D object. *

triangular-based prism

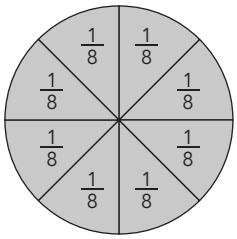


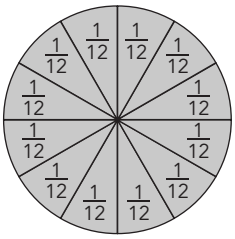
cylinder



GEOMETRIC REASONING

10 Look at the eighth and twelfth turn testers.





Write these amounts of turn in order from greatest to least.

$\frac{1}{8}$	$\frac{7}{12}$	$\frac{3}{8}$	$\frac{3}{12}$	$\frac{5}{8}$	$\frac{11}{12}$	$\frac{4}{8}$
$\frac{11}{12}$	$\frac{5}{8}$	$\frac{7}{12}$	$\frac{4}{8}$	$\frac{3}{8}$	$\frac{3}{12}$	$\frac{1}{8}$

STATISTICS & PROBABILITY

CHANCE

11 This table shows the available shirts, pants and wigs that clowns can choose.

Shirt	Pants	Wig
Spotty	Blue	Curly
Striped	Red	Straight
Plain	Yellow	Frizzy

a. How many different combinations are there if you choose a spotty shirt? 9

b. How many different combinations are there if you choose yellow pants? 9

c. How many different combinations are there if you choose a straight wig? 9

d. How many different combinations are there if you choose a plain shirt and red pants? 3

e. How many different combinations are there if you choose a curly wig and blue pants? 3

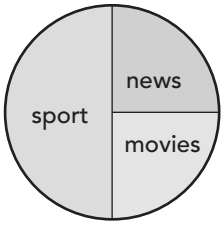
f. How many different combinations are there altogether? 27

TESTER

This pie chart shows the results when 100 people were surveyed about the shows they liked to watch.

How many people preferred to watch news?

50 ○ 25 ● 33 ○ 14 ○



Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! 24

MENTAL MATHS

ADDITION & SUBTRACTION

7 + 3 = 10	32 + 10 = 42	75 + 10 = 85
8 + 8 = 16	6 + 7 = 13	10 + 83 = 93
5 + 11 = 16	9 + 8 = 17	19 + 9 = 28
36 + 9 = 45	29 + 10 = 39	29 + 10 = 39
12 + 7 = 19	11 + 5 = 16	7 + 5 = 12

MULTIPLICATION & DIVISION

4 × 8 = 32	12 × 8 = 96	45 ÷ 9 = 5
1 × 8 = 8	8 × 0 = 0	18 ÷ 9 = 2
7 × 8 = 56	100 × 8 = 800	27 ÷ 9 = 3
10 × 8 = 80	8 × 20 = 160	54 ÷ 9 = 6
8 × 3 = 24	8 × 11 = 88	36 ÷ 9 = 4

NUMBER & ALGEBRA

NUMBER & PLACE VALUE

1 Write the numbers **10 000 less** and **10 000 more**.

10 000 less		10 000 more
337 530	347 530	357 530
689 759	699 759	709 759
180 300	190 300	200 300
732 199	742 199	752 199
307 109	317 109	327 109
610 010	620 010	630 010

2 Each number is the **total** of the 2 numbers directly below. Write the missing numbers.

925
398 527
148 250 277
87 61 189 88

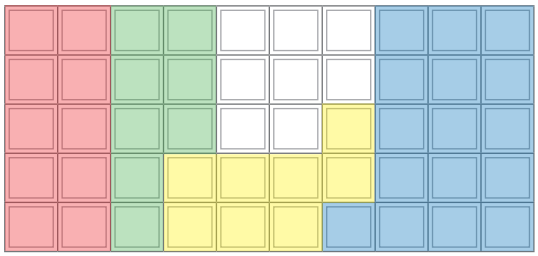
3 Each number is the **difference** between the 2 numbers directly below. Write the missing numbers.

29
148 119
687 539 658
963 276 815 157

226
269 495
781 512 1007

FRACTIONS & DECIMALS

4 A family shared this chocolate bar.



a. Use different colours to show how many pieces in each share. Write the numbers.

- Dad ate $\frac{1}{5}$ of the total. 10
- Mum ate $\frac{1}{5}$ of the remaining pieces. 8
- Chloe and Isabelle together ate $\frac{1}{2}$ of the remaining pieces. 16
- James ate $\frac{1}{2}$ of the remaining pieces. 8

b. Write how many pieces are left over. 8

MONEY & FINANCIAL MATHEMATICS

5 Calculate the total cost.

• $5.75 • $12.50 $12 + $5 = $17 75c + 50c = $1.25 Total $ 18.25	• $17.55 • $3.90 $17 + $3 = $20 55c + 90c = $1.45 Total $ 21.45
• $24.15 • $13.20 $24 + $13 = $37 15c + 20c = 35c Total $ 37.35	• $27.45 • $16.30 $27 + $16 = $43 45c + 30c = 75c Total $ 43.75

i You can use a **round-and-adjust strategy** to add dollars and cents. For example, when you *see* $33.65 + $12.95 *think* $33.65 + 35c plus $12.95 – 35c = $34 + $12.60.

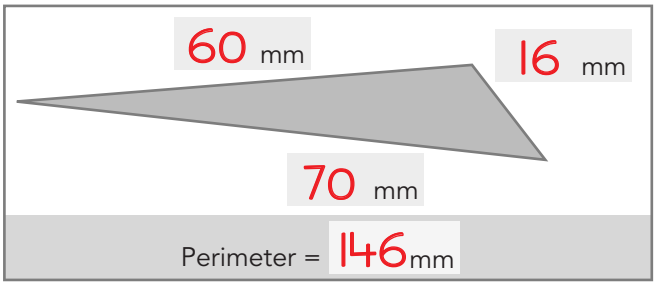
MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

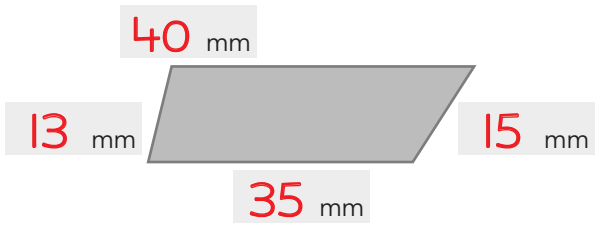
6 Convert these amounts.

1200 mL =	1.2 L	1 L =	1000 mL
3500 mL =	3.5 L	6 L =	6000 mL
4700 mL =	4.7 L	$1\frac{3}{4}$ L =	1750 mL
3870 mL =	3.87 L	5.9 L =	5900 mL
2750 mL =	2.75 L	2.8 L =	2800 mL

7 Use a ruler to measure and label each side. Then calculate the perimeter.



Perimeter = 146 mm



Perimeter = 103 mm

8 Write these as 12-hour times. Use a.m. or p.m.

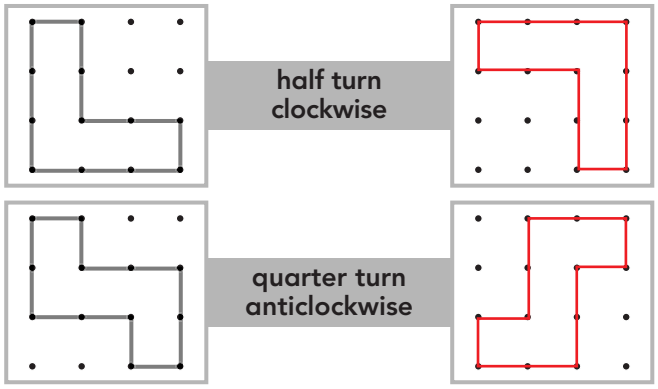
4 hours after midnight	4:00 a.m.
3 hours after noon	3:00 p.m.
$14\frac{1}{2}$ hours after midday	2:30 a.m.
$5\frac{1}{4}$ hours after midday	5:15 p.m.

9 Write these as 24-hour times.

quarter past six in the morning	06:15
thirty-five minutes past four in the afternoon	16:35
nine twenty-three in the evening	21:23

LOCATION & TRANSFORMATION

10 Draw the shapes after the turn.



STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

11 **a.** Calculate the price increase each year.

Year	Price of 2 L milk	Increase
2003	$1.40	—
2004	$1.55	15 c
2005	$1.60	5 c
2006	$1.80	20 c
2007	$1.95	15 c
2008	$2.30	35 c

b. What was the price of milk in 2003? $1.40

c. How much did the price increase from 2005 to 2006? 20c

d. Which years had the same price increase? 2004, 2007

e. How much did the price increase from 2003 to 2008? 90c

f. Which year had the greatest increase? 2008

g. Which year had the least increase? 2005

TESTER

Which is the greatest decimal?

0.5 ○ 0.09 ○ 0.1 ○ 0.96 ●

Colour one bubble.

PARENT/CARER SIGNATURE _____ DATE _____

NAME _____

STEP IT UP! REVIEW 3

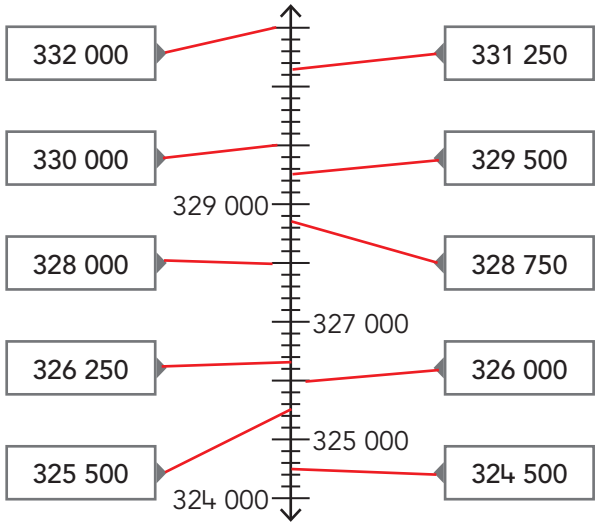
NUMBER & ALGEBRA

NUMBER & PLACE VALUE

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

1000 less	247 402	508 248	344 872	199 563
	248 402	509 248	345 872	200 563
1000 more	249 402	510 248	346 870	201 563

2 Connect the number to the correct position on the line.



3 Calculate these answers. Show your working.

30 × 5 = 150	9 × 5 = 45	39 × 5 = 195
60 × 4 = 240	3 × 4 = 12	63 × 4 = 252
20 × 6 = 120	7 × 6 = 42	27 × 6 = 162

4 Calculate the total mass of these packages.

6 boxes 53 kg (6 × 50) + (6 × 3) 300 + 18 Total 318 kg	8 boxes 34 kg (8 × 30) + (8 × 4) 240 + 32 Total 272 kg
7 boxes 67 kg (7 × 60) + (7 × 7) 420 + 49 Total 469 kg	5 boxes 68 kg (5 × 60) + (5 × 8) 300 + 40 Total 340 kg

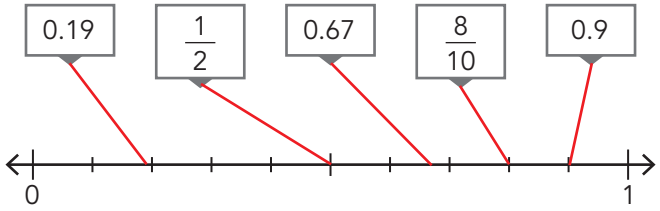
5 Complete the parts then write the answer.

315 ÷ 3 = 105
is the same as
300 ÷ 3 plus 15 ÷ 3

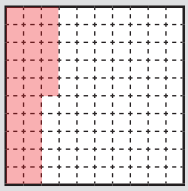
824 ÷ 4 = 206
is the same as
800 ÷ 4 plus 24 ÷ 4

FRACTIONS & DECIMALS

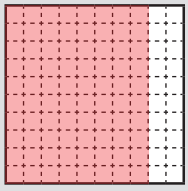
6 Draw a line from each fraction to its position.



7 Complete the missing parts.



= 1/4 = 25/100 = 0.25



= 4/5 = 80/100 = 0.8

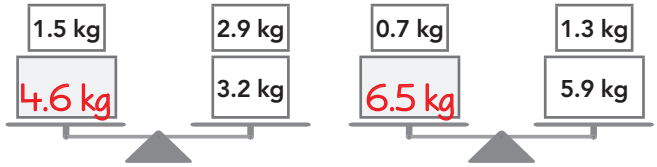
MONEY & FINANCIAL MATHEMATICS

8 Calculate the total cost.

Buy 4 kg	Buy 2 kg	Buy 3 kg
$2.99 kg	$4.97 kg	$3.49 kg
$ 11.96	$ 9.94	$ 10.47

PATTERNS & ALGEBRA

9 Write the mass to make each balance picture true.



MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

10 Convert these masses.

2 kg	2000 g	$1\frac{1}{2}$ kg	1500 g
3.5 kg	3500 g	$\frac{1}{4}$ kg	250 g
3700 g	3.7 kg	900 g	0.9 kg
0.5 kg	500 g	2100 g	2.1 kg

11 Use a ruler to measure the sides. Then calculate the perimeter.

Perimeter = 56 mm

Perimeter = 90 mm

Perimeter = 72 mm

12 Write these as 24-hour times.

ten minutes to eight in the evening — 19:50

07:10 — ten past seven in the morning

four thirty-five in the afternoon — 16:35

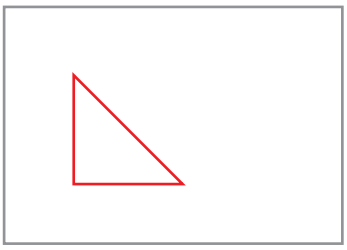
13 Calculate the areas of these oblongs.

Length =	9 units
Width =	12 units
Area =	108 sq. units

Length =	4 units
Width =	9 units
Area =	36 sq. units

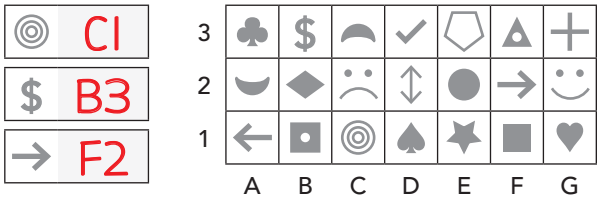
SHAPE

14 Draw an isoceles triangle with 2 sides 15 mm long.



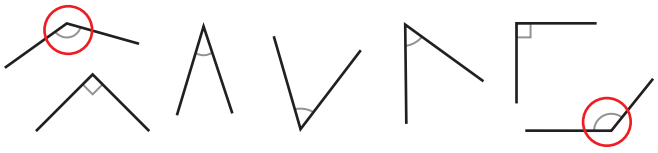
LOCATION & TRANSFORMATION

15 Write grid references for these.



GEOMETRIC REASONING

16 Loop the obtuse angles red.

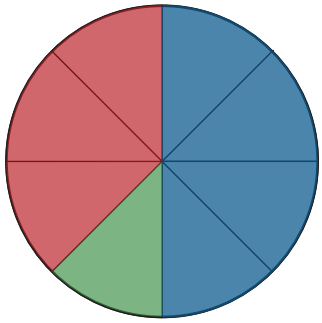


STATISTICS & PROBABILITY

CHANCE

17 Look at this spinner.

Write a fraction to describe the chance of these events.



spinning red	$\frac{3}{8}$	spinning blue	$\frac{1}{2}$	spinning green	$\frac{1}{8}$
spinning blue or green	$\frac{5}{8}$	spinning red or green	$\frac{1}{2}$		
not spinning blue or red	$\frac{1}{8}$	not spinning green or blue	$\frac{3}{8}$		

DATA REPRESENTATION & INTERPRETATION

18 **a.** This table shows a team's scores over a 5-day sports carnival. Complete the table.

Day	Total Points	Gain
1	24	24
2	32	8
3	46	14
4	56	10
5	86	30

b. On which day was the least recorded gain? day 2

c. On which day was the greatest recorded gain? day 5

d. How many more points were scored on Day 5 than Day 2? 22