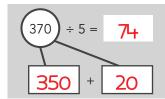
MULTIPLICATION & DIVISION

$$9 \times 6 = 54$$
 $9 \times 100 = 900$ $30 \div 10 = 3$

$$9 \times 2 = 8$$

NUMBER É PLACE VALUE

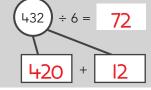
Break each number into parts that are easy to divide. Then write the answer.

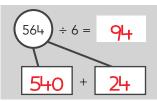


15 - 7 = 8

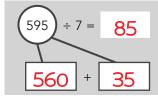
24 - 15 = 9

30 - | = 16







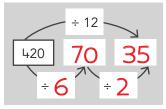


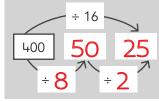
\$33.60 ÷ 6 = \$**5.60**

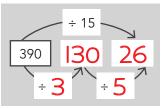
+ \$3.60

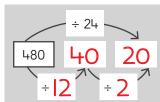


2 Complete the diagrams to show how you can use factors to solve these.









FRACTIONS & DECIMALS

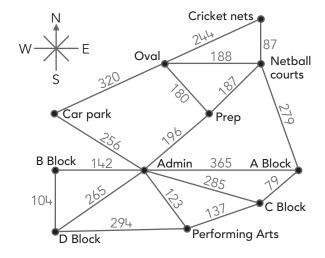
3 Use a written method to calculate these.

\$30

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

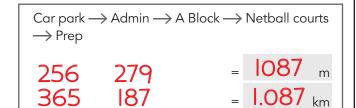
The distances around this school are shown in metres.

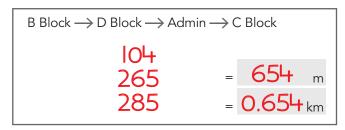


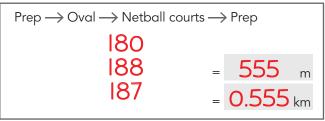
Write the distance for each trip in 2 ways.



Admin
$$\rightarrow$$
 Prep \rightarrow Oval
$$\begin{array}{ccc}
196 & = 376 & m \\
180 & = 0.376 & km
\end{array}$$







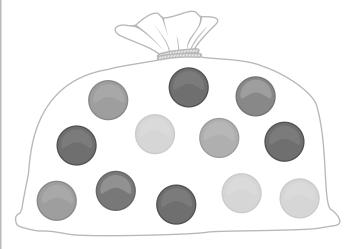
GEOMETRIC REASONING

Label these angles as acute, obtuse and reflex.

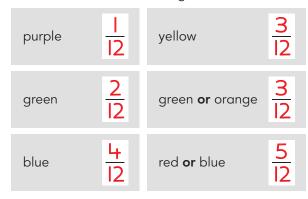


CHANCE

Marbles are randomly drawn from this bag.



Write a fraction to describe the chance of taking these marbles out of the bag.



blue Which colour is most likely?

Which 2 operations will complete a true number sentence?





Write your answers in the boxes.

$$8 + 16 = 24$$
 $15 - 13 = 2$ $19 - 6 = 13$ $3 \times 10 = 30$ $10 \times 12 = 120$ $48 \div 2 = 24$

$$15 + 15 = 30$$
 $11 - 3 = 8$ $20 - 8 = 12$ $1 \times 10 = 10$ $50 \times 10 = 500$ $32 \div 2 = 16$

MULTIPLICATION & DIVISION

$$3 \times 10 = 30$$
 $10 \times 12 = 120$

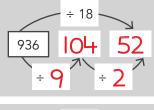
$$5 \times 10 = 30$$
 $10 \times 23 = 250$
 $2 \times 10 = 20$ $11 \times 10 = 110$

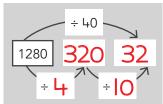
$$11 \times 10 = 110$$
 $40 \div 2 = 20$

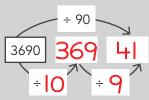
NUMBER É PLACE VALUE

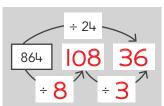
Break each number into parts to divide these.

2 Use factors to help you divide these.









MONEY & FINANCIAL MATHEMATICS

3 Use these items to answer the questions.



Write the total cost.

marshmallows and jelly beans

chocolate and ice cream

licorice, potato chips and chocolate

Write the difference between these prices.

licorice and jelly beans

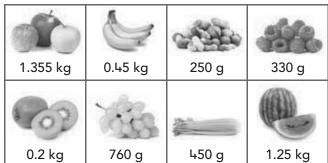
Difference =
$$$3.65$$

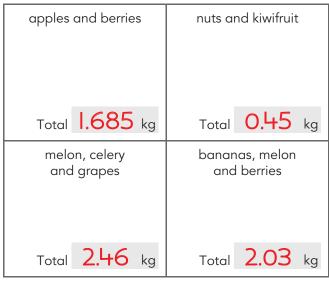
potato chips and marshmallows

MEASUREMENT & GEOMETRY

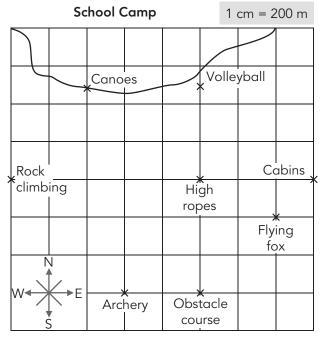
USING UNITS OF MEASUREMENT

Work out these total masses. Remember to convert to the same mass unit first.





5 Write the direction and distance.



- **a.** Archery \rightarrow Obstacle course E 400 m
- **b.** Flying fox \longrightarrow Cabins
- NE 225 m
- **c.** High ropes \longrightarrow Rock climbing
- W 1000_m
- **d.** Volleyball \longrightarrow High ropes

S 500_m

CHANCE

These 3 animal cards have been cut into Head, Body and Feet cards.







Imagine you combine different head, body and feet cards to create crazy animals.

- a. How many different animals can you make?
- 27
- **b.** What fraction of these will be correct animals?
- 9
- **c.** If you choose an eagle's head, how many different animals can you make?
- 9
- **d.** If you choose a rabbit's body, how many different animals can you make?
- 9

One hundred students were asked to vote for their favourite sport. This pie chart shows the results.

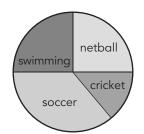
What percentage describes the number who voted for netball?

10%

25%

18%

50%



Colour one bubble.

MULTIPLICATION & DIVISION

$$10 \times 10 = 100$$
 $5 \times 24 = 120$ $72 \div 2 = 36$

$$5 \times 24 = 120$$

$$72 \div 2 = 3$$

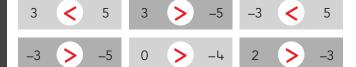
$$4 \times 10 = 40$$
 $5 \times 50 = 250$ $180 \div 2 = 90$

NUMBER & PLACE VALUE

1 Write the missing integers.



Write > or < to show true comparisons.



List all the integers between these numbers.

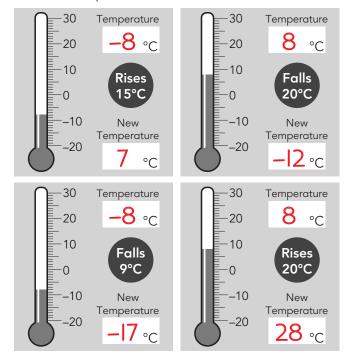
4 and -3	3, 2, 1, 0, -1, -2
–2 and 5	-1, 0, 1, 2, 3, 4

Write each row in order from least to greatest.

Complete the number sentences.

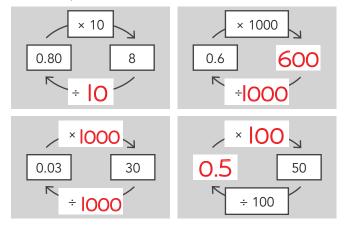
	Th	Н	Т	Ones	t	h	th
6 × 1000 =	6	0	0	0	•		
6 × 100 =		6	0	0	•		
6 × 10 =			6	0	•		
6 × 1 =				6	•		
6 × 0.1 =					.6		
6 × 0.01 =					.0	6	
6 × 0.001 =					.0	0	6

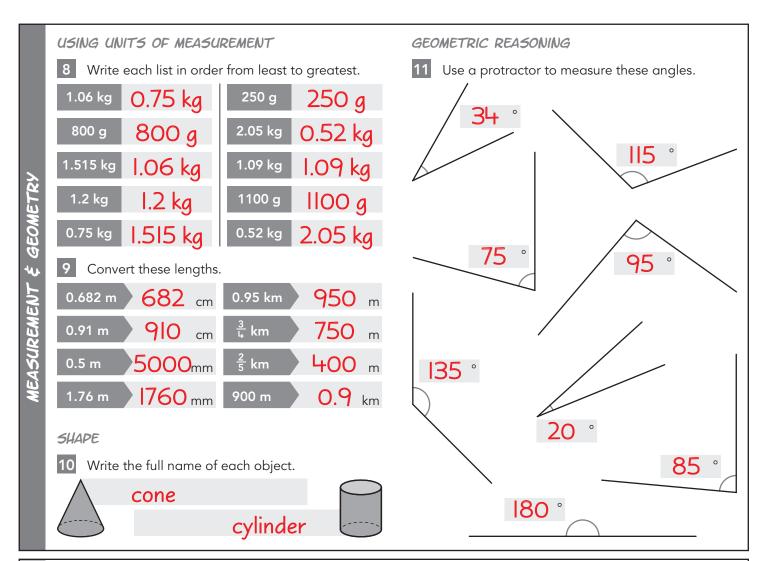
Write the temperature shown then the new temperature.



FRACTIONS & DECIMALS

Complete these.



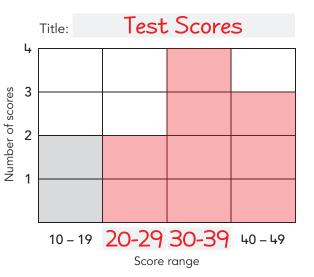


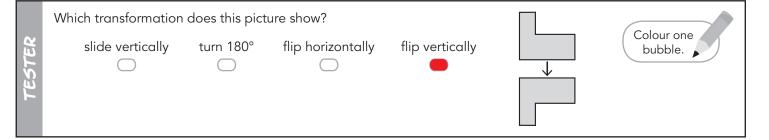
DATA REPRESENTATION & INTERPRETATION

12 Use the following test scores to complete the table and bar graph.

40, 13, 21, 14, 26, 41, 33, 35, 36, 37, 40

Score Range	Frequency
10 — 19	2
20 — 29	2
30 - 39	4
40 - 49	3





14 + 17 =	31	22 - 13 = 9	21 - 13 =	8
15 + 16 =	31	35 – 15 = 20	27 - 11 =	16

MULTIPLICATION & DIVISION

$$3 \times 60 = 180$$
 $12 \times 3 = 36$ $404 \div 4 = 101$ $3 \times 19 = 57$ $25 \times 3 = 75$ $84 \div 4 = 21$

$$64 \div 4 = 16$$
 $128 \div 4 = 32$

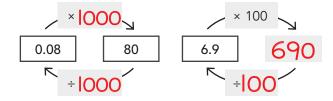
NUMBER É PLACE VALUE

1 Complete the missing information for Mt Everest.

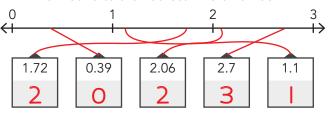
	Jan	Feb	Mar	April	May	June
Base Temp.	–17°C	–17°C	–l3°C	-10°C	-7°C	-4°C
Temp. Change	Falls 19°C	Falls 18°C	Falls 19°C	Falls 20°C	Falls √18°C	Falls √15°C
Summit Temp.	-36°C	–35°C	-32°C	-30°C	–25°C	-19°C

	July	Aug	Sept	Oct	Nov	Dec
Base Temp.	-3°C	₩° C	-6°C	-9°C	-II°C	-15°C
Temp. Change	Falls √15°C	Falls √14°C	Falls 15°C	Falls √18°C	Falls 19°C	Falls √19°C
Summit Temp.	-l8°C	–18°C	–21°C	-27°C	-30°C	–34°C

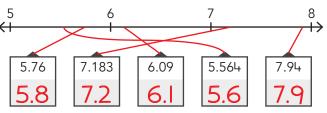
3 Complete these.



Connect each number to the number line.
Then round to the nearest **whole** number.



5 Connect each number to the number line. Then round to the nearest **tenth**.



6 Use all these digits. Make these numbers.

4 8 1 7 5 9	3	
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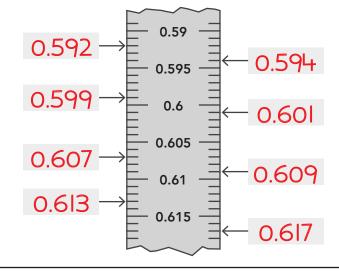
- greatest number possible
- least number possible
- closest number to 5000
- closest number to 5500
- closest number to 9200

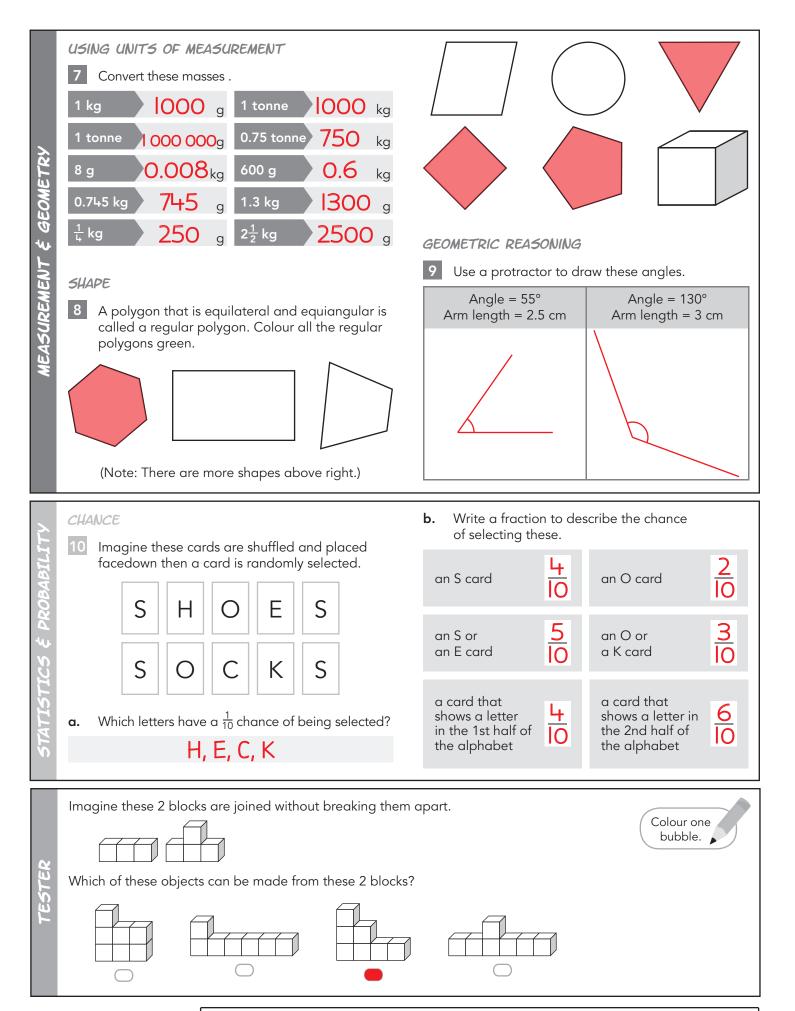
- 9875.43
- 1345.789
- 4 9 8 7 . 5 3
- 5 4 9 8 . 7 3
- ^{nber} 9 1 8 7 . 5 4 3

FRACTIONS & DECIMALS

VUMBER & ALGEBRA

Write the decimal in each box.





$$17 - 9 = 8$$

\$36

MULTIPLICATION & DIVISION

4 × 13 =
$$52$$
 4 × 25 = 100

$$65 \div 5 = 13$$

$$115 \div 5 = 23$$

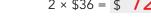
$$110 \div 5 = 2$$

$$4 \times 51 = 204$$
 $15 \times 4 = 60$

$200 \div 5 = 40$

NUMBER É PLACE VALUE

a. What is the cost of 2 umbrellas?





What is the cost of 24 umbrellas?

Write the costs of these.

3 umbrellas $3 \times $36 = 108

30 umbrellas
$$3 \times \$36 \times 10 = \$1080$$

35 umbrellas
$$30 \times $36 + 5 \times $36 = $1260$$

4 umbrellas
$$4 \times $36 = $144$$

40 umbrellas
$$4 \times $36 \times 10 = $1440$$

46 umbrellas
$$\frac{40}{36} \times 36 = 1656$$

Check these calculations. If incorrect, show the correct calculation.

3/
x 59
333
<u> 1850</u>
2183

FRACTIONS & DECIMALS

Use a written method to solve these.

2.7 × 1.9 = 5.13	6.1 × 3.8 = 23.18
4.6 × 7.2 = 33.12	5.7 × 4.5 = 25.65

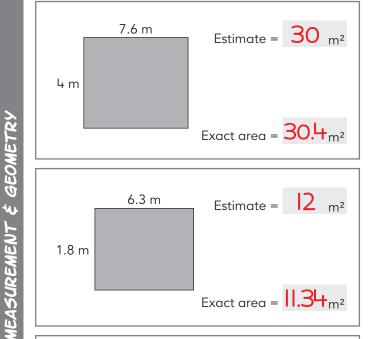
PATTERNS & ALGEBRA

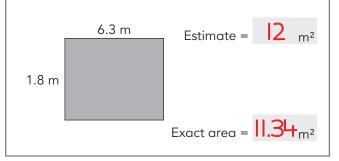
Complete these multiplication patterns.

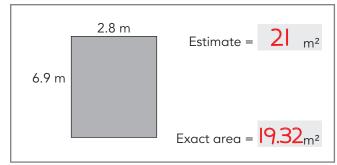
28 × 2 =	56	39 × 3 =	117
28 × 0.2 =	5.6	39 × 0.3 =	11.7
2.8 × 0.2 =	0.56	3.9 × 0.3 =	1.7
16 × 6 =	96	15 × 7 =	105
16 × 6 = 16 × 0.6 =	0.6	15 × 7 = 15 × 0.7 =	105 10.5

USING UNITS OF MEASUREMENT

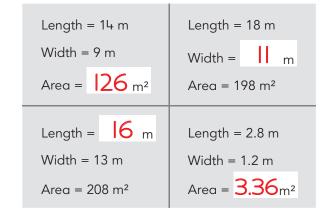
Estimate the area. Then calculate the exact area.





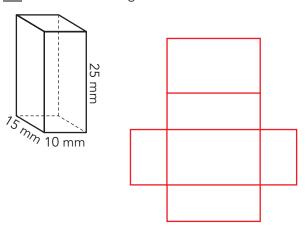


6 Write the missing dimensions for these oblongs.



SHAPE

Draw a net using the dimensions shown.



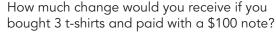
DATA REPRESENTATION & INTERPRETATION

- One hundred students were surveyed about their favourite recreational activity.
- Complete the pie chart using this data.

Recreation Activity						
Reading	Watching TV	Sport	Music	Games		
5	25	40	15	15		

- What percentage prefer music or reading? 20 b.
- What percentage **do not** prefer sport? 60 c.





\$54.50

\$55.50

\$81.50





MULTIPLICATION & DIVISION

$$5 \times 21 = 105$$
 $13 \times 8 = 104$ $60 \div 5 = 12$

$$33 \times 5 = 165$$
 $21 \times 8 = 168$ $100 \div 5 = 20$

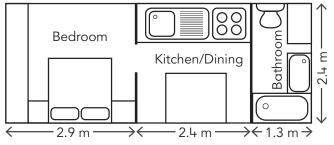
$$5 \times 16 = 90$$
 $15 \times 8 = 120$ $55 \div 5 = 11$

NUMBER É PLACE VALUE

1 Use a written method to solve these.

47 × 53 = 2491	3.9 × 18 = 70.2
5.3 × 6.2 = 32.86	94 × 56 = 5264

a. Look at this caravan floor plan. Calculate these areas.



2.9111	-2.4 III - 7 - 1.3 III 7	
Bedroom	Kitchen/Dining	
2.9 x 2.4	2.4 x 2.4	
6.96 m ²	5.76 m ²	
Bathroom	Full caravan	
1.3 x 2.4	6.6 x 2.4	
3.12 m ²	15.84m ²	

FRACTIONS & DECIMALS

NUMBER & ALGEBRA

Mark the estimate with a ✔ or X to show if it makes sense. Use a written method to work out the exact answer.

3.2 × 4.5	6.3 × 14
Estimate \longrightarrow 150	Estimate \longrightarrow 8.82 \times
4.4	88.2

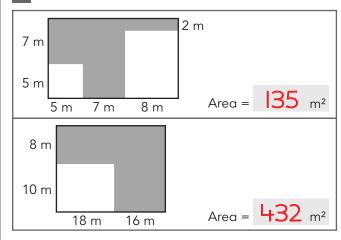
b. A roll-out annex is the length of the bedroom and kitchen/dining rooms together and is 2.8 m wide. What is the area under the annex?

14.84_{m²}

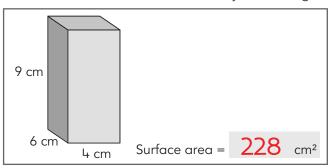
MEASUREMENT & GEOMETRY

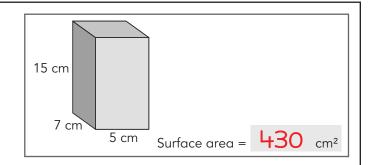
USING UNITS OF MEASUREMENT

4 Calculate the shaded area.

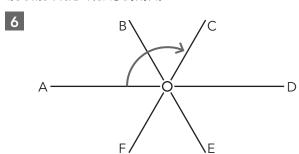


5 Calculate the surface area of each prism.
Write number sentences to show your thinking.





GEOMETRIC REASONING



These lines split 360° into 6 equal parts. Calculate each angle without a protractor.

Angle AOB =	60°	Angle AOC = 120°
Angle COF =	180°	Angle DOB = 240°
Angle EOD =	300°	Angle FOB = 120°

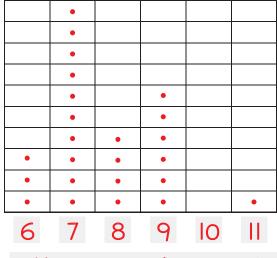
DATA REPRESENTATION ξ INTERPRETATION

7 This tally chart shows the number of hoops scored by a group of basketball players at practice.

a. Write the totals in the table.

Number of hoops	Tally	Total
6		3
7	JHT JHT	Ю
8		4
9	ЖΙ	6
10		0
11		

Complete this dot plot to show the data.



itle: Hoops scored at practice

FSTER

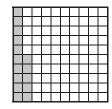
What percentage of this grid is shaded?

85%

25%

15%

5%



Colour one bubble.

8 +	17	=	

MULTIPLICATION & DIVISION

$$10 \times 0.01 = 0.1$$
 $9 \times 10 = 90$ 450 ÷ 9 = 50

$$9 \times 10 = 90$$

$$450 \div 9 = 50$$

$$10 \times 0.16 = 1.6$$
 $9 \times 3 = 27$ $99 \div 9 = 11$

$$9 \times 3 = 27$$

$$99 \div 9 = 11$$

$$0 \times 0.16 = 1.0$$

$$10 \times 0.91 = 9.1$$
 $9 \times 7 = 63$ $180 \div 9 = 20$

$$9 \times 4 = 36 \quad 108 \div 9 = 12$$

FRACTIONS & DECIMALS

1 Complete the table.

Common Fraction	Hundredths		
1 4	<u>25</u>	0.25	25 %
5	20 100	0.20	20 %
<u>3</u> 4	75 100	0.75	75 %
<u>2</u> 5	<u>40</u> 100	0.40	40 %
<u>4</u> 5	<u>80</u> 100	0.80	80 %
<u>3</u> 5	60 100	0.60	60 %
<u> </u>	<u>50</u> 100	0.50	50 %
<u>L</u> ,	1 <u>00</u>	1.0	100 %

One hundred boys and one hundred girls were surveyed about their favourite subject.

Boys		
Maths	35	
English	15%	
Art	150	
Science	25%	
Music	0.1	

Girls		
Maths	30	
English	0.3	
Art	<u>20</u> 100	
Science	0. 15	
Music	5%	

- Write the missing score in each table. a.
- What percentage of boys b. favoured Music?
- 0 %

- What percentage of girls favoured English?
 - 30 %
- Write the percentage of boys who favoured Science as a common and decimal fraction.
- What 2 subjects together were favoured by more than 50% of girls?

Maths and English

MONEY & FINANCIAL MATHEMATICS

3 Look at these camp prices.

Camp Costs			
Bus (each)	\$25.00	High ropes	\$9.25
Cabin (per night)	\$19.99	Canoes	\$4.95
Rock climbing	\$8.90	Food (per day)	\$17.85
Archery	\$6.50	Flying fox	\$2.35

Work out these costs.

The bus + 10 nights in a cabin + food for 10 days

1 student \$403.40 20 students \$8068

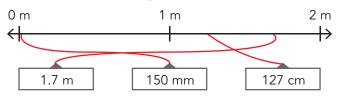
All 5 activities

1 student \$31.95

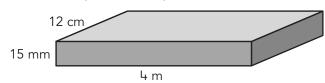
20 students \$ 639

USING UNITS OF MEASUREMENT

4 Draw a line to the position on the number line.



5 Use this prism to complete the table.



Length	Width	Height	Volume
4000 mm	120 mm	15 mm	7 200 000mm²
400 cm	12 cm	1.5 cm	7200 cm ²

6 Complete each table to show equivalent lengths.



3.65 km
3650 m
365 000 cm
3 650 000 mm
4.8 km
4800m
480 000 cm
4 800 000 mm

LOCATION & TRANSFORMATION

7 a. Draw the letter after each move.

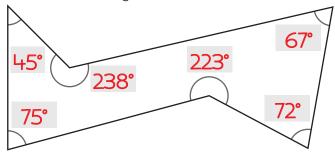
	Flip right	Flip right	Slide down
START	F	Ŧ	F
		Slide left	Flip left
FINISH	∃	П	F

Write 2 instructions so that the letter returnsto its starting position.

Slide up Flip right

GEOMETRIC REASONING

8 Use a protractor to measure and label the interior angles.



DATA REPRESENTATION & INTERPRETATION

9 This table shows the gain in length each week for a baby fish.

Week Birth	Length (mm)	Gain (mm)
Birth	7	_
1	11	Ц
2	17	6
3	25	8
4	30	5

- **a.** Did the fish gain the same length each week?
- No
- **b.** What was the least recorded gain?
- 4 mm
- **c.** What was the greatest recorded gain? 8 mm
- **d.** What was the total gain over the 4 weeks?
- 23 mm
- **x** e. Estimate its length after Week 5.

28 mm

STER

WEASUREMENT & GEOMETRY

The swimming and cycling parts of a junior triathlon used $\frac{3}{4}$ of the total time allowed.

What fraction of the time is left for the run?



Write your answer in the box.

16 + 17 = 33 15 - 8 = 7 20
--

$$14 + 26 = 40$$
 $29 - 15 = 14$ $30 - 12 = 18$

MULTIPLICATION & DIVISION

$$6.1 \times 10 = 61$$
 $42 \div 2 = 21$ $39 \div 3 = 13$ $4.3 \times 10 = 43$ $26 \div 2 = 13$ $69 \div 3 = 23$

$$0.7 \times 10 = 7$$
 $48 \div 2 = 24$ $48 \div 3 = 16$

$$1.9 \times 10 = 19$$
 $64 \div 2 = 32$ $21 \div 3 = 7$

$$0.06 \times 10 = 0.6$$
 $70 \div 2 = 35$ $45 \div 3 = 15$

NUMBER É PLACE VALUE

1 Complete these.

	3 8
×	44
	152
1	520
	672
	0/2

FRACTIONS & DECIMALS

2 Write the equivalent amounts.

$$\frac{3}{4} = \frac{75}{100} = 75 \%$$
 $\frac{3}{5} = \frac{60}{100} = 60 \%$

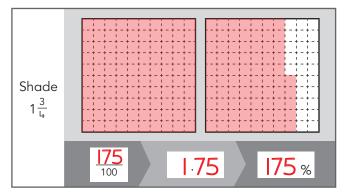
$$\frac{4}{10} = \frac{40}{100} = 40 \%$$
 $\frac{1}{5} = \frac{20}{100} = 20 \%$

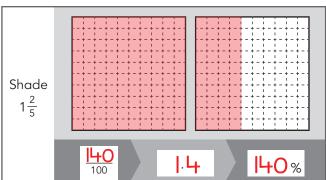
Work out the number of each car colour in these car parks. Then write the total.

Trai	Train Station Car Park Total $ ightharpoonup$ 200					
Red	Silver	Black	White	Blue	Yellow	
15%	10%	15%	35%	20%	5%	
30	20	30	70	40	10	

Shopping Centre Car Park Total $ ightarrow 1000$					
Red	Silver	Black	White	Blue	Yellow
10%	15%	10%	40%	15%	10%
100	150	100	400	150	100

Each grid represents one whole. Shade each fraction then complete the missing amounts.





MONEY & FINANCIAL MATHEMATICS

5 Show the percentage of each amount.

		\$48.00	\$105.00	\$9.40	\$1.70
10)%	\$4.80	\$10.50	94c	17c
		\$80.00	\$100.00	\$12.60	\$5.20
25	5%	\$20	\$25	\$3.15	\$1.30
		\$60.00	\$48.00	\$12.40	\$1.60
75	5%	\$45	\$36	\$9.30	\$1.20

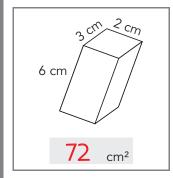
USING UNITS OF MEASUREMENT

Change to the same units. Then add to find the total.

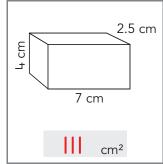


Total =

Calculate the surface area of these prisms.

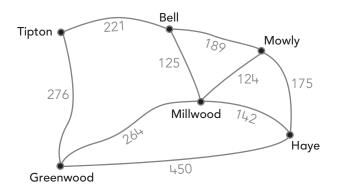


510 mm



95 cm

The distances on the map are shown in kilometres.



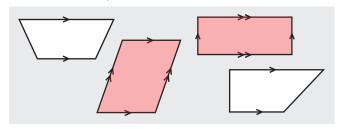
What is the shortest route from Haye \longrightarrow Tipton?



How many kilometres is that route? 488 km

SHAPE

Colour the parallelograms.



CHANCE *

Play this probability game at home.

Rules:

MEASUREMENT & GEOMETRY

- Place 10 counters (or buttons) on numbers on the game board, up to 3 counters on any number.
- b. Roll 2 regular dice and get the total.
- Remove 1 counter if it is on that total.
- d. Continue rolling until all counters are removed. If playing against an opponent, draw another game board. The winner is the first to remove all their counters.
- What did you discover about this game?

Cama	board

1	2	3	4
5	6	7	8
9	10	11	12

Which 2 operations will make this number sentence true?







Write your answers in the boxes.

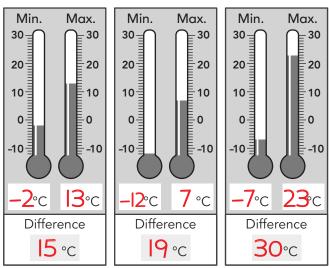
NUMBER & ALGEBRA

NUMBER & PLACE VALUE

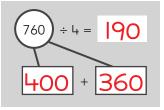
1 Write > or < to show true comparisons.

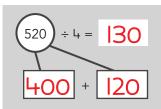
-3 < 8	-5 < 4	-5 > -7
2 > -4	-2 < 1	0 > -1

Write the temperature shown on each thermometer. Then calculate the difference.

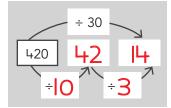


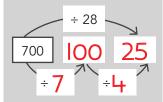
3 Break each number into parts to divide.



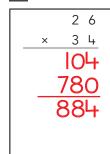


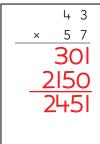
4 Use factors to divide these.





5 Use a written method to solve these.





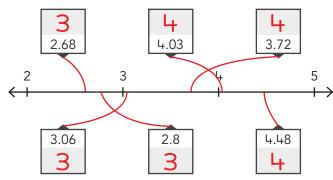


FRACTIONS & DECIMALS

6 Write the missing parts that match.



7 Match each decimal to the number line. Then write the closest **whole** number.



MONEY & FINANCIAL MATHEMATICS

8 Break each amount into parts then answer.



9 Show the percentage of each amount.

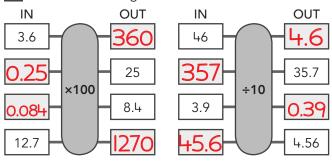
25%			\$24.80		
25%	\$20	\$12	\$6.20	\$13.15	\$1.30

10 Express the answer in the most appropriate way.

5 people equally share \$496. How much does each get? \$99.20

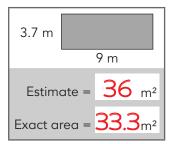
PATTERNS & ALGEBRA

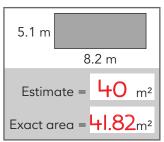
11 Write the missing IN and OUT numbers.



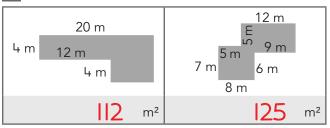
USING UNITS OF MEASUREMENT

Round the dimensions to **estimate** the area. Then calculate the exact area.

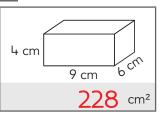


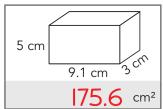


13 Calculate these areas.



14 Calculate the surface area of each prism.





Convert to the same unit of measurement.

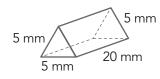
Then calculate the total.





SHAPE

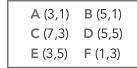
Draw a net using the dimensions shown.

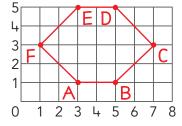




LOCATION & TRANSFORMATION

17 a. Plot these points on the grid.



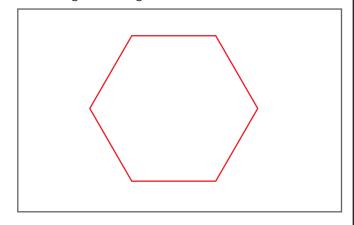


- **b.** Connect the points in this order from A to F.
- **c.** What shape have you drawn?

hexagon

GEOMETRIC REASONING

Use a ruler and a protractor to draw a regular hexagon.



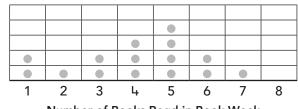
CHANCE

19 Imagine you roll 2 regular dice and add the numbers. Use scrap paper to work out the likelihood of rolling each total.



DATA REPRESENTATION & INTERPRETATION

20 Each • represents 1 student.



Number of Books Read in Book Week

- a. How many students read at least 2 books?
- **b.** How many students read 4 or more books?
- c. How many students participated? 15



MEASUREMENT & GEOMETRY