

## ADDITION &amp; SUBTRACTION

$9 + 6 = 15$	$12 + 9 = 21$	$14 - 2 = 12$
$5 + 6 = 11$	$16 + 3 = 19$	$16 - 4 = 12$
$7 + 9 = 16$	$11 + 7 = 18$	$11 - 4 = 7$
$10 + 4 = 14$	$13 + 9 = 22$	$18 - 5 = 13$
$3 + 11 = 14$	$5 + 14 = 19$	$13 - 6 = 7$

## MULTIPLICATION &amp; DIVISION

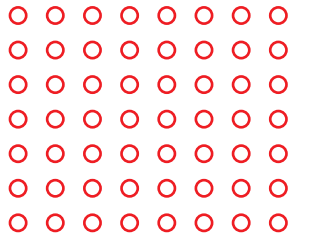
$8 \times 9 = 72$	$8 \times 11 = 88$	$35 \div 5 = 7$
$8 \times 4 = 32$	$8 \times 20 = 160$	$40 \div 4 = 10$
$8 \times 6 = 48$	$100 \times 8 = 800$	$16 \div 8 = 2$
$8 \times 8 = 64$	$8 \times 50 = 400$	$27 \div 3 = 9$
$8 \times 7 = 56$	$12 \times 8 = 96$	$14 \div 2 = 7$


## NUMBER &amp; PLACE VALUE

- 1 Calculate these products.

so $4 \times 25 = 100$	so $5 \times 20 = 100$
$4 \times 27 = 108$	$5 \times 23 = 115$
so $6 \times 30 = 180$	so $8 \times 20 = 160$
$6 \times 29 = 174$	$8 \times 18 = 144$

- 2 Draw a dot array then write the fact family to match.

	$7 \times 8 = 56$
	$8 \times 7 = 56$
	$56 \div 7 = 8$
	$56 \div 8 = 7$

	$6 \times 4 = 24$
	$4 \times 6 = 24$
	$24 \div 6 = 4$
	$24 \div 4 = 6$

- 3 Complete these.

$\begin{array}{r} 378 \\ + 352 \\ \hline 730 \end{array}$	$\begin{array}{r} 486 \\ + 391 \\ \hline 877 \end{array}$	$\begin{array}{r} 267 \\ + 445 \\ \hline 712 \end{array}$	$\begin{array}{r} 543 \\ + 295 \\ \hline 838 \end{array}$
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## FRACTIONS &amp; DECIMALS

- 4 You can make equivalent fractions by doubling the numerator and the denominator. Write equivalent fractions for these.

$\frac{2}{3}$	is the same as	$\frac{4}{6}$	is the same as	$\frac{8}{12}$
$\frac{3}{4}$	is the same as	$\frac{6}{8}$	is the same as	$\frac{12}{16}$

## MONEY &amp; FINANCIAL MATHEMATICS

- 5 Calculate the total cost in your head. Write a number sentence to show your thinking.

$\$1.95$	+	$\$7.48$	=	$\$9.43$
$\$7 + \$1.95 + 5c + 43c$				

$\$2.99$	+	$\$5.39$	=	$\$8.38$
$\$5 + \$2.99 + 1c + 38c$				

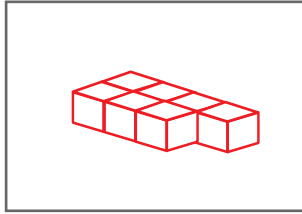
$\$6.98$	+	$\$3.49$	=	$\$10.47$
$\$3 + \$6.98 + 2c + 47c$				

$\$1.97$	+	$\$11.05$	=	$\$13.02$
$\$11 + \$1.97 + 3c + 2c$				

\* Answers will vary. This is one example.

USING UNITS OF MEASUREMENT

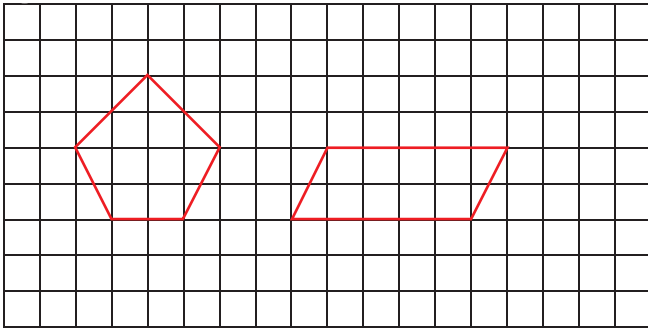
- 6 Draw the base of a tower that has 7 cubes in each layer.  
\* in each layer.



Then complete the table below to match.

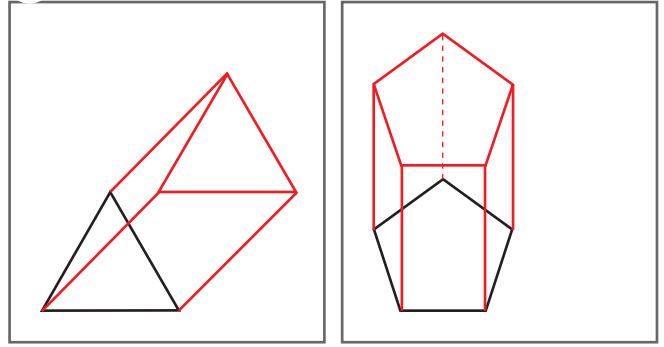
Number of cubes in base	Number of layers	Total number of cubes
7	1	7
7	3	21
7	5	35
7	7	49
7	9	63

- 7 Draw a quadrilateral and a pentagon that cover the same number of squares.  
\*



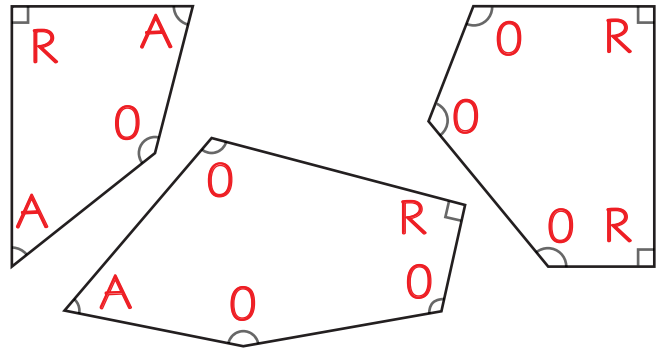
SHAPE

- 8 Two prism bases are shown below.  
\* Complete each drawing.



GEOMETRIC REASONING

- 9 Write **A** next to all the acute angles.  
Write **R** next to all the right angles.  
Write **O** next to all the obtuse angles.



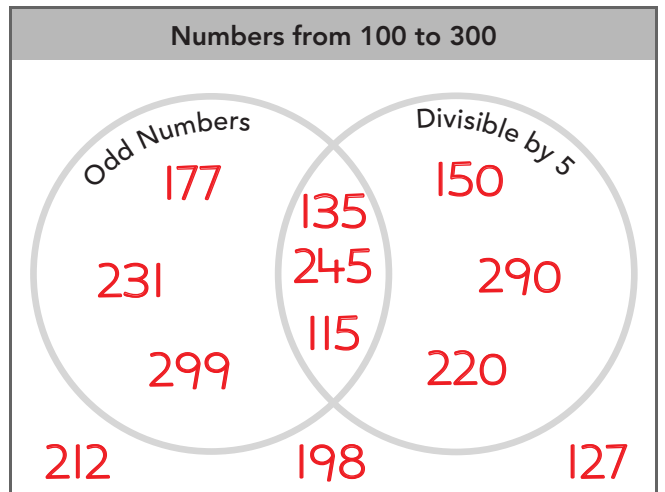
DATA REPRESENTATION & INTERPRETATION

- 10 a. Write 3 numbers in each of the 4 parts of the Venn diagram.  
\*  
b. Write how you would describe the numbers in the overlapping part of the circles.

They are all odd, divisible by 5 and between 100 – 300.

- c. Write how you would describe the numbers outside the circles.

They are even numbers, divisible by 5 and between 100 – 300.



What is the next number in this pattern?

- 64 53 42 31 20 ?

- 19  9  11  0



NAME \_\_\_\_\_

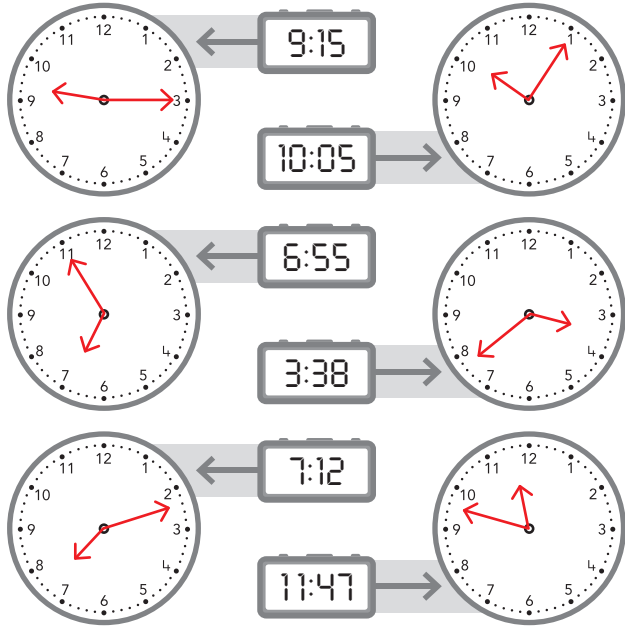
MENTAL MATHS	ADDITION & SUBTRACTION			MULTIPLICATION & DIVISION		
	$6 + 7 = 13$	$50 + 50 = 100$	$18 - 6 = 12$	$8 \times 7 = 56$	$3 \times 3 = 9$	$40 \div 10 = 4$
	$3 + 11 = 14$	$30 + 70 = 100$	$11 - 2 = 9$	$6 \times 8 = 48$	$2 \times 7 = 14$	$36 \div 9 = 4$
	$9 + 8 = 17$	$60 + 70 = 130$	$14 - 9 = 5$	$11 \times 8 = 88$	$3 \times 7 = 21$	$20 \div 10 = 2$
	$8 + 4 = 12$	$80 + 90 = 170$	$12 - 3 = 9$	$4 \times 7 = 28$	$5 \times 7 = 35$	$45 \div 9 = 5$
	$7 + 3 = 10$	$70 + 20 = 90$	$19 - 7 = 12$	$7 \times 5 = 35$	$6 \times 3 = 18$	$72 \div 9 = 8$

NUMBER & ALGEBRA	NUMBER & PLACE VALUE		3 Complete these facts.																																									
	1 Write the value of the red digit.	<table border="1"> <tr><td>3608</td><td>6 hundreds</td><td>5961</td><td>6 tens</td></tr> <tr><td>4175</td><td>4 thousands</td><td>3827</td><td>2 tens</td></tr> <tr><td>8110</td><td>8 thousands</td><td>4106</td><td>6 ones</td></tr> <tr><td>6290</td><td>9 tens</td><td>3702</td><td>7 hundreds</td></tr> <tr><td>3999</td><td>9 ones</td><td>8217</td><td>7 ones</td></tr> </table>	3608	6 hundreds	5961	6 tens	4175	4 thousands	3827	2 tens	8110	8 thousands	4106	6 ones	6290	9 tens	3702	7 hundreds	3999	9 ones	8217	7 ones	<table border="1"> <tr><td>6</td><td><math>\times</math></td><td>4</td><td>=</td><td>24</td></tr> <tr><td>24</td><td><math>\div</math></td><td>6</td><td>=</td><td>4</td></tr> </table>	6	$\times$	4	=	24	24	$\div$	6	=	4	<table border="1"> <tr><td>4</td><td><math>\times</math></td><td>9</td><td>=</td><td>36</td></tr> <tr><td>36</td><td><math>\div</math></td><td>9</td><td>=</td><td>4</td></tr> </table>	4	$\times$	9	=	36	36	$\div$	9	=	4
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2 Write the number in each box.		<h3>MONEY &amp; FINANCIAL MATHEMATICS</h3> <p>4 Write the missing amounts.</p> <table border="1"> <thead> <tr> <th>Money in wallet</th> <th>Total cost</th> <th>Amount left over</th> </tr> </thead> <tbody> <tr><td>\$120</td><td>\$67.50</td><td>\$52.50</td></tr> <tr><td>\$200</td><td>\$160.50</td><td>\$39.50</td></tr> <tr><td>\$50</td><td>\$16.15</td><td>\$33.85</td></tr> <tr><td>\$150</td><td>\$86.20</td><td>\$63.80</td></tr> <tr><td>\$63</td><td>\$43.45</td><td>\$19.55</td></tr> <tr><td>\$70</td><td>\$32.65</td><td>\$37.35</td></tr> </tbody> </table>		Money in wallet	Total cost	Amount left over	\$120	\$67.50	\$52.50	\$200	\$160.50	\$39.50	\$50	\$16.15	\$33.85	\$150	\$86.20	\$63.80	\$63	\$43.45	\$19.55	\$70	\$32.65	\$37.35																				
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		<h3>PATTERNS &amp; ALGEBRA</h3> <p>5 Write = or <math>\neq</math> for each.</p> <table border="1"> <tr><td><math>6 + 4 + 5 = 3 \times 5</math></td><td><math>6 \times 7 \neq 39 - 7</math></td></tr> <tr><td><math>18 \div 2 \neq 20 - 12</math></td><td><math>18 + 19 \neq 4 \times 9</math></td></tr> <tr><td><math>4 \times 8 \neq 20 + 4 + 18</math></td><td><math>72 \div 8 = 3 \times 3</math></td></tr> <tr><td><math>20 - 14 = 30 \div 5</math></td><td><math>63 \div 9 = 3 + 4</math></td></tr> <tr><td><math>3 + 4 + 5 \neq 30 \div 3</math></td><td><math>48 \div 4 \neq 2 \times 7</math></td></tr> </table>		$6 + 4 + 5 = 3 \times 5$	$6 \times 7 \neq 39 - 7$	$18 \div 2 \neq 20 - 12$	$18 + 19 \neq 4 \times 9$	$4 \times 8 \neq 20 + 4 + 18$	$72 \div 8 = 3 \times 3$	$20 - 14 = 30 \div 5$	$63 \div 9 = 3 + 4$	$3 + 4 + 5 \neq 30 \div 3$	$48 \div 4 \neq 2 \times 7$																															
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		<p>The (=) symbol means <b>is the same as</b> or <b>is equal to</b>.                  The (<math>\neq</math>) symbol means <b>is not equal to</b>.</p>																																										

\* Answers will vary. This is one example.

USING UNITS OF MEASUREMENT

6 Draw the hands on the clock.



7 Write the time you do each of these. \*

Wake up	7:00	Go to school	8:15
Eat lunch	12:30	Eat dinner	6:30
Eat breakfast	7:15	Do homework	10:15
Go to bed	9:00	Leave school	3:00

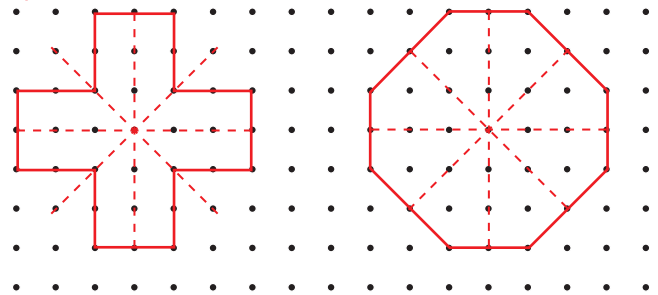
8 Work out the total mass.



- a. Apples and mushrooms **365** g
- b. Oranges and bananas **830** g
- c. Bananas and apples **580** g
- d. Mushrooms and oranges **615** g
- e. Which 2 items add to make  $\frac{3}{4}$  kg?  
**apples**      **oranges**
- f. Which item is  $\frac{1}{2}$  kg? **oranges**

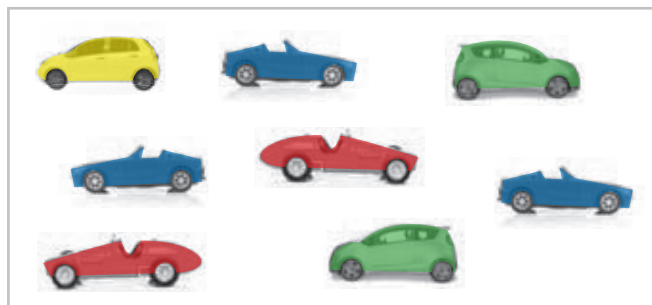
LOCATION & TRANSFORMATION

9 Draw 2 shapes that have more than 1 mirror line. \* Then mark all the mirror lines.



CHANCE

10 Imagine you take a toy car out of this box without looking.

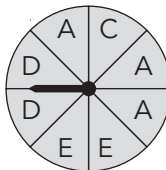


Write colours to describe the toy cars. \*

- a. **Blue** is more likely than **green**.
- b. **Yellow** is the most unlikely.
- c. It is impossible to draw a **black** car.
- d. **Red** and **green** are equally likely.
- e. **Blue** is the most likely.

Look at this spinner.  
Which letter is least likely?

- A     B     C     D



NAME \_\_\_\_\_

MENTAL MATHS

ADDITION & SUBTRACTION

$14 + 14 = 28$	$18 - 3 = 15$	$20 - 13 = 7$
$3 + 18 = 21$	$16 - 4 = 12$	$19 - 6 = 13$
$17 + 17 = 34$	$13 - 11 = 2$	$24 - 23 = 1$
$13 + 13 = 26$	$17 - 15 = 2$	$19 - 13 = 6$
$19 + 19 = 38$	$10 - 6 = 4$	$26 - 8 = 18$

MULTIPLICATION & DIVISION

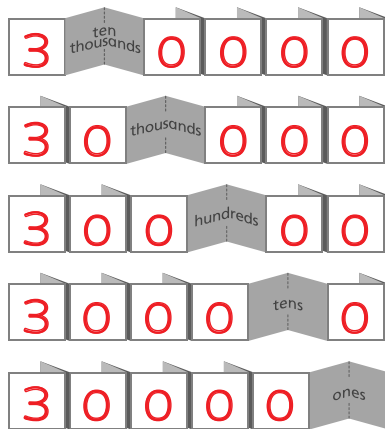
$2 \times 8 = 16$	$90 \times 2 = 180$	$54 \div 9 = 6$
$4 \times 4 = 16$	$6 \times 70 = 420$	$81 \div 9 = 9$
$2 \times 4 = 8$	$3 \times 50 = 150$	$63 \div 9 = 7$
$8 \times 6 = 48$	$2 \times 70 = 140$	$45 \div 9 = 5$
$8 \times 8 = 64$	$7 \times 90 = 630$	$27 \div 9 = 3$

NUMBER & PLACE VALUE

1 Write the number that is 10 000 more.

986	10 986	421	10 421
599	10 599	301	10 301
4321	14 321	7808	17 808
9999	19 999	1019	11 019

2 Complete the expanders to show the different ways to describe 30 000.



3 a. Use all the digits. Write the greatest number possible.

6, 0, 1, 7, 9	97 610	5, 8, 4, 2, 3	85 432
1, 9, 3, 2, 6	96 321	0, 2, 4, 9, 1	94 210

b. Write the 4 numbers in order from least to greatest.

85 432 94 210 96 321 97 610

4 Name 2 places you would see 5-digit numbers.

- \* a. The price tag for a car.
- b. The attendance at a grand final.

5 Complete these.

$\begin{array}{r} 378 \\ -156 \\ \hline 222 \end{array}$	$\begin{array}{r} 489 \\ -247 \\ \hline 242 \end{array}$	$\begin{array}{r} 619 \\ -205 \\ \hline 414 \end{array}$	$\begin{array}{r} 555 \\ -334 \\ \hline 221 \end{array}$
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FRACTIONS & DECIMALS

6 Write the fraction that is shaded.

1/4 (square)

5/10 (pentagon)

6/8 (circle)

2/6 (triangle)

PATTERNS & ALGEBRA

7 Write the missing numbers to make the balance pictures true.

\* Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

8 Convert these distances.

953 cm → 9 m 53 cm    814 cm → 8 m 14 cm  
 701 cm → 7 m 1 cm    903 cm → 9 m 3 cm  
 910 cm → 9 m 10 cm    415 cm → 4 m 15 cm

9 Look at this calendar.

October 2011						
S	M	T	W	Th	F	S
30	31					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

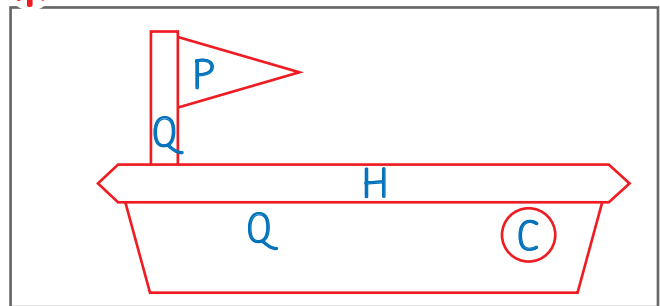
- a. How many days in October? **31**
- b. What date is the last Thursday? **27th**
- c. How many Sundays in this month? **5**
- d. What day was 18 October? **Tuesday**
- e. What day was 30 September 2011? **Friday**
- f. What day was 1 November 2011? **Tuesday**

10 Calculate the distance around each shape.

A = 26 m    C = 65 m  
 B = 17 m    D = 82 m

SHAPE

11 a. Draw 2 quadrilaterals, a circle, a polygon and a hexagon to create a picture.



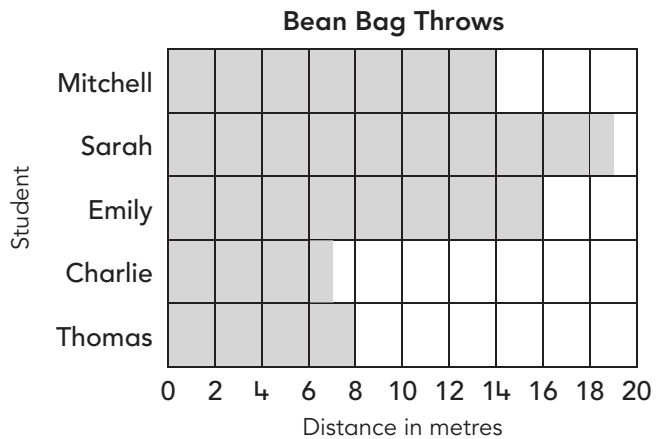
- b. Label the shapes as shown below.  
 P = polygon    Q = quadrilateral  
 C = circle    H = hexagon

STATISTICS & PROBABILITY

DATA REPRESENTATION & INTERPRETATION

12 Use the graph to complete this table.

Names	Distance	
Thomas	8	m
Charlie	7	m
Emily	16	m
Sarah	19	m
Mitchell	14	m



TESTER

Look at the calendar in Question 9.  
 What is the date of the 4th Sunday in October?

- 16th     2nd     9th     23rd



PARENT/CARER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

## ADDITION &amp; SUBTRACTION

$9 + 8 = 17$	$18 - 7 = 11$	$14 - 8 = 6$
$12 + 12 = 24$	$11 - 8 = 3$	$19 - 14 = 5$
$4 + 8 = 12$	$14 - 4 = 10$	$18 - 6 = 12$
$18 + 18 = 36$	$20 - 12 = 8$	$15 - 7 = 8$
$5 + 13 = 18$	$18 - 11 = 7$	$9 - 4 = 5$

## MULTIPLICATION &amp; DIVISION

$3 \times 5 = 15$	$8 \times 3 = 24$	$48 \div 4 = 12$
$6 \times 8 = 48$	$4 \times 8 = 32$	$24 \div 3 = 8$
$9 \times 7 = 63$	$9 \times 4 = 36$	$14 \div 2 = 7$
$7 \times 6 = 42$	$8 \times 5 = 40$	$21 \div 7 = 3$
$2 \times 8 = 16$	$8 \times 1 = 8$	$12 \div 4 = 3$

## NUMBER &amp; PLACE VALUE

- 1 Loop the numbers that are less than 100 away from 10 000.

8980	9020	9942	9890
9902	9508	9998	9001

- 2 Loop the numbers that are less than 1000 away from 10 000.

9300	9005	8998	9608
8900	8312	9109	9098

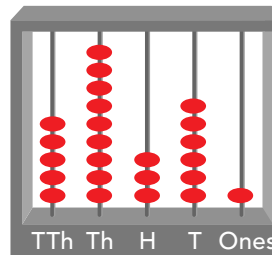
- 3 Write all the other factors.

84	72	96
1 × 84	1 × 72	1 × 96
2 × 42	2 × 36	2 × 48
3 × 28	3 × 24	3 × 32
4 × 21	4 × 18	4 × 24
6 × 14	6 × 12	6 × 16
7 × 12	8 × 9	8 × 12

- 4 Use all the digits.  
Make the greatest number possible.

0, 1, 8, 9, 2	98 210	8, 1, 1, 7, 0	87 110
0, 2, 7, 1, 0	72 100	7, 4, 0, 3, 9	97 430
1, 6, 9, 9, 0	99 610	2, 4, 6, 1, 5	65 421

- 5 Draw beads on the abacus to show the number.  
Then write the number.

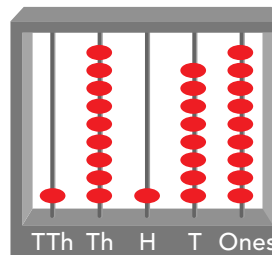
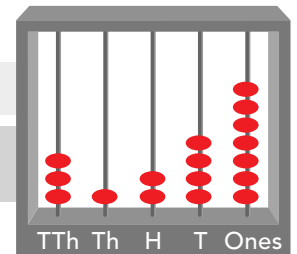


fifty-nine thousand,  
three hundred and sixty-one

59 361

31 247

thirty-one thousand,  
two hundred and forty-seven



nineteen thousand,  
one hundred and eighty-nine

19 189

## MONEY &amp; FINANCIAL MATHEMATICS

- 6 Calculate the total cost.

Buy 4.

Total = \$ 10.00

Buy 3.

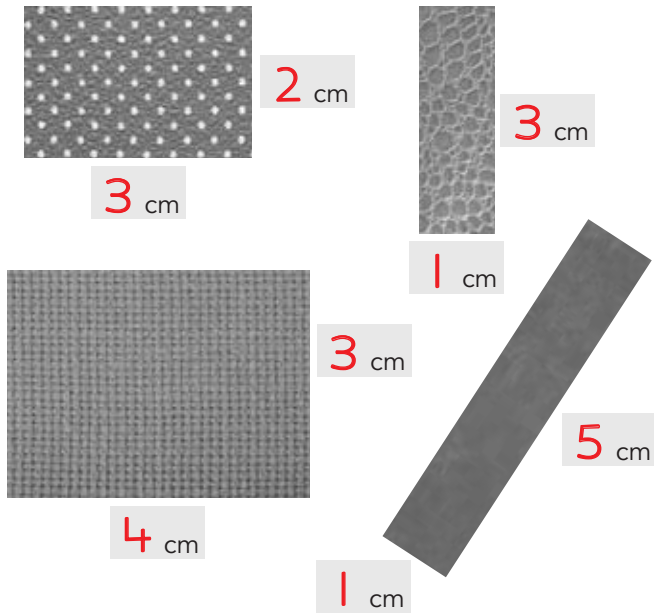
Total = \$ 19.20



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.

USING UNITS OF MEASUREMENT

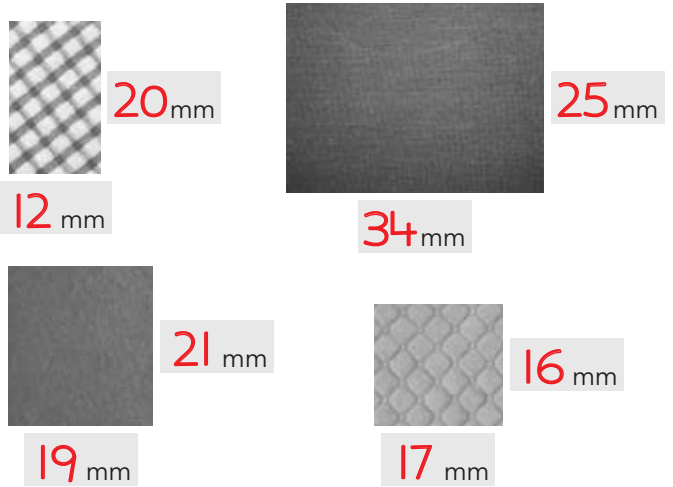
7 Measure and label the dimensions in cm.



8 Convert these measurements.

1 cm	10 mm	$\frac{1}{2}$ cm	5 mm
30 mm	3 cm	$4\frac{1}{2}$ cm	45 mm
9 cm	90 mm	85 cm	850 mm
90 cm	900 mm	100 cm	1000 mm

9 Measure and label the dimensions in mm.



GEOMETRIC REASONING \*

10 Draw a quadrilateral to match each label.

1 right angle, 2 obtuse angles	2 acute angles, 1 right angle

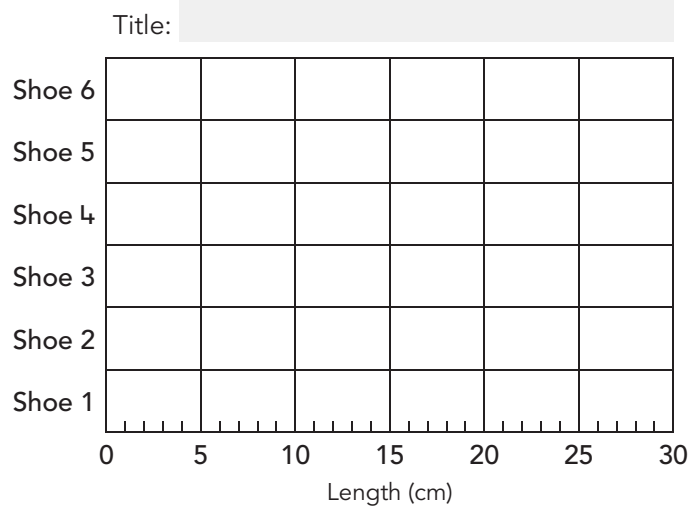
DATA REPRESENTATION & INTERPRETATION

11 a. Measure and record the length of 6 different shoes.

\*

Shoes	Length (cm)
Shoe 1	
Shoe 2	
Shoe 3	
Shoe 4	
Shoe 5	
Shoe 6	

b. Use the data to complete the graph.



Sarah has saved \$268. She wants to buy a bicycle for \$625.

How much more money does she need to save? \$ **357**

Write your answer in the box.



## ADDITION &amp; SUBTRACTION

$16 + 3 + 7 = 26$

$21 - 4 = 17$

$19 - 7 = 12$

$12 + 6 + 8 = 26$

$21 - 8 = 13$

$17 - 4 = 13$

$17 + 4 + 6 = 27$

$21 - 7 = 14$

$8 - 6 = 2$

$19 + 7 + 1 = 27$

$21 - 5 = 16$

$12 - 7 = 5$

$18 + 9 + 1 = 28$

$21 - 2 = 19$

$13 - 9 = 4$

## MULTIPLICATION &amp; DIVISION

$7 \times 7 = 49$

$5 \times 8 = 40$

$32 \div 8 = 4$

$3 \times 8 = 24$

$5 \times 4 = 20$

$18 \div 3 = 6$

$7 \times 4 = 28$

$2 \times 7 = 14$

$24 \div 6 = 4$

$4 \times 3 = 12$

$5 \times 6 = 30$

$40 \div 5 = 8$

$7 \times 9 = 63$

$5 \times 2 = 10$

$27 \div 9 = 3$

## NUMBER &amp; PLACE VALUE

1 Add 1200 to each number.

$31\ 272 \rightarrow 32\ 472$

$21\ 010 \rightarrow 22\ 210$

$14\ 701 \rightarrow 15\ 901$

$66\ 666 \rightarrow 67\ 866$

$10\ 625 \rightarrow 11\ 825$

$53\ 905 \rightarrow 55\ 105$

$97\ 391 \rightarrow 98\ 591$

$46\ 812 \rightarrow 48\ 012$

$42\ 087 \rightarrow 43\ 287$

$29\ 345 \rightarrow 30\ 545$

$30\ 004 \rightarrow 31\ 204$

$18\ 870 \rightarrow 20\ 070$

2 Write these numbers in words.

52 421

fifty-two thousand, four hundred and twenty-one

17 201

seventeen thousand, two hundred and one

3 a. Use all the digits. Make the least number possible.

$1, 8, 7, 0, 9 \rightarrow 10\ 789$

$7, 4, 1, 2, 8 \rightarrow 12\ 478$

$3, 0, 1, 2, 0 \rightarrow 10\ 023$

$9, 7, 8, 2, 1 \rightarrow 12\ 789$

b. Order the 4 numbers from least to greatest.

$10\ 023 \quad 10\ 789 \quad 12\ 478 \quad 12\ 789$

4 Double and halve the factors. Then write the answers.

$5 \times 16 = 80$

is the same as

$10 \times 8 = 80$

$4 \times 14 = 56$

is the same as

$8 \times 7 = 56$

$18 \times 5 = 90$

is the same as

$9 \times 10 = 90$

$25 \times 6 = 150$

is the same as

$50 \times 3 = 150$

5 Calculate these products.

$4 \times 30 = 120$

$5 \times 20 = 100$

$4 \times 5 = 20$

$5 \times 6 = 30$

SO  $4 \times 35 = 140$

SO  $5 \times 26 = 130$

$7 \times 40 = 280$

$9 \times 20 = 180$

$7 \times 5 = 35$

$9 \times 3 = 27$

SO  $7 \times 45 = 315$

SO  $9 \times 23 = 207$

## PATTERNS &amp; ALGEBRA

6 Write the missing parts in these patterns.

$46, 56, 66, 76, 86, 96, 106, 116, 126$

$3 \times 3, 3 \times 4, 3 \times 5, 3 \times 6, 3 \times 7, 3 \times 8$

$1, 2, 2, 3, 1, 2, 2, 3, 1, 2, 2, 3, 1, 2, 3, 1$

$97, 91, 85, 79, 73, 67, 61, 55, 49, 43$














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

**USING UNITS OF MEASUREMENT**

**7** Convert these measurements.

1 L = <b>1000</b> mL	2 L = <b>2000</b> mL
$\frac{1}{2}$ L = <b>500</b> mL	<b>5</b> L = 5000 mL
$2\frac{1}{2}$ L = <b>2500</b> mL	$3\frac{1}{2}$ L = <b>3500</b> mL
$\frac{1}{4}$ L = <b>250</b> mL	$1\frac{1}{2}$ L = 1500 mL

**8** Calculate the totals.

 + 	<b>750</b> mL
500 mL + 250 mL	
 + 	<b>175</b> mL
50 mL + 125 mL	
 +  + 	<b>750</b> mL
250 mL + 250 mL + 250 mL	
 +  + 	<b><math>1\frac{1}{2}</math></b> L
500 mL + 500 mL + 500 mL	
 +  + 	<b><math>\frac{1}{2}</math></b> L
250 mL + 200 mL + 50 mL	

**9** Write these times.

thirty-five minutes past 10 **10:35**

**8:13** thirteen minutes past 8

quarter past 2 **2:15**

**5:40** 20 minutes to 6

**LOCATION & TRANSFORMATION**

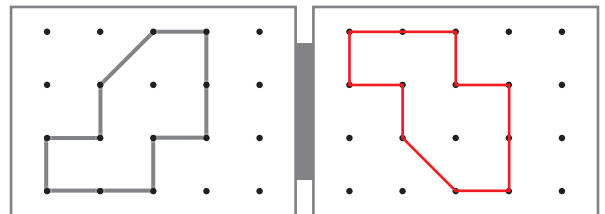
**10**

5									
4									
3									
2									
1									
	A	B	C	D	E	F	G	H	I

N  
↑  
↔  
↓

- Colour these squares red: D5, G3, C5, B4.
- Draw a green X one square north of E4.
- Draw a red X one square east of H4.
- Draw a blue X one square north-east of C1.

**11** Redraw the shape to show a flip to the right.



**DATA REPRESENTATION & INTERPRETATION**

**12** Use the table to answer these questions.

- a. The hottest day in Week 1 was **Wednesday**.
- b. The coldest day in Week 2 was **Friday**.
- c. The coldest Thursday was in Week **1**.
- d. The difference in temperature between both Tuesdays was **5** °C.
- e. Which week was hottest overall? Week **2**

Maximum Temperatures			
Week 1		Week 2	
Monday	24°C	Monday	28°C
Tuesday	26°C	Tuesday	31°C
Wednesday	31°C	Wednesday	33°C
Thursday	27°C	Thursday	29°C
Friday	25°C	Friday	26°C

Which of these has the same value as  $14 \times 5$ ?

- 60 + 8 + 4      10 × 7      100 - 20      100 ÷ 10
- 

Colour one bubble. 

MENTAL MATHS

ADDITION & SUBTRACTION

$13 + 8 + 7 = 28$	$23 - 4 = 19$	$26 - 14 = 12$
$7 + 12 + 8 = 27$	$23 - 10 = 13$	$19 - 4 = 15$
$11 + 4 + 9 = 24$	$32 - 6 = 26$	$17 - 15 = 2$
$13 + 4 + 7 = 24$	$41 - 34 = 7$	$14 - 5 = 9$
$6 + 4 + 15 = 25$	$18 - 14 = 4$	$23 - 5 = 18$

MULTIPLICATION & DIVISION

$6 \times 10 = 60$	$11 \times 8 = 88$	$42 \div 6 = 7$
$9 \times 6 = 54$	$6 \times 4 = 24$	$99 \div 11 = 9$
$10 \times 10 = 100$	$7 \times 6 = 42$	$36 \div 6 = 6$
$3 \times 9 = 27$	$6 \times 8 = 48$	$24 \div 6 = 4$
$3 \times 10 = 30$	$11 \times 1 = 11$	$33 \div 11 = 3$

NUMBER & PLACE VALUE

- 1 Draw beads on the abacus to show the number. Then add one bead to the digit that is red and write the new number.

<p>17847</p> <p>TTh Th H T Ones</p> <p>New number</p> <p>17 848</p>	<p>28601</p> <p>TTh Th H T Ones</p> <p>New number</p> <p>29 601</p>
<p>21304</p> <p>TTh Th H T Ones</p> <p>New number</p> <p>31 304</p>	<p>82526</p> <p>TTh Th H T Ones</p> <p>New number</p> <p>82 626</p>

- 2 Write the numbers just before and just after.

19 341	19 342	19 343
29 801	29 802	29 803
45 259	45 260	45 261
68 399	68 400	68 401
31 798	31 799	31 800
72 599	72 600	72 601
19 999	20 000	20 001

- 3 Double each number.

24	48	74	148
48	96	124	248
70	140	261	522

- 4 Calculate the cost of buying 5.

\$35	$5 \times 30 = 150$ $5 \times 5 = 25$	Total \$ 175
\$27	$5 \times 20 = 100$ $5 \times 7 = 35$	Total \$ 135
\$43	$5 \times 40 = 200$ $5 \times 3 = 15$	Total \$ 215
\$52	$5 \times 50 = 250$ $5 \times 2 = 10$	Total \$ 260

FRACTIONS & DECIMALS

- 5 Draw lines to connect equivalent fractions.

$\frac{2}{10}$	$\frac{4}{10}$	$\frac{8}{10}$	$\frac{5}{10}$	$\frac{6}{10}$
$\frac{1}{2}$	$\frac{1}{5}$	$\frac{3}{5}$	$\frac{4}{5}$	$\frac{2}{5}$

Connections:  $\frac{2}{10} \rightarrow \frac{1}{5}$ ,  $\frac{4}{10} \rightarrow \frac{2}{5}$ ,  $\frac{8}{10} \rightarrow \frac{4}{5}$ ,  $\frac{5}{10} \rightarrow \frac{1}{2}$ ,  $\frac{6}{10} \rightarrow \frac{3}{5}$



You can use a **place-value strategy** to multiply. For example, when you see  $6 \times 23$  think  $6 \times 20$  plus  $6 \times 3$  is  $120 + 18 = 138$ .

NUMBER & ALGEBRA

\* Answers will vary. This is one example.





MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

6 Complete the table.

Container				
Number needed to make 2L	4	8	20	40

7 Calculate these amounts.

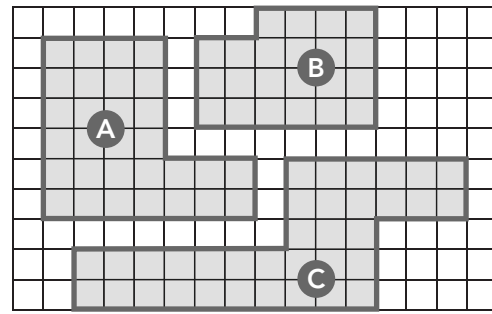
<p>Drink 5</p>  250 mL Total = 1250 mL	<p>Drink 2</p>  2 L Total = 4000 mL
<p>Drink 3</p>  600 mL Total = 1800 mL	<p>Drink 4</p>  300 mL Total = 1200 mL

8 Draw lines to connect matching amounts.

100 mL	500 mL	250 mL	200 mL	750 mL
$\frac{3}{4}$ L	$\frac{1}{5}$ L	$\frac{1}{2}$ L	$\frac{1}{4}$ L	$\frac{1}{10}$ L


*(Red lines connect 100 mL to 1/10 L, 500 mL to 1/2 L, 250 mL to 1/4 L, 200 mL to 1/5 L, and 750 mL to 3/4 L.)*

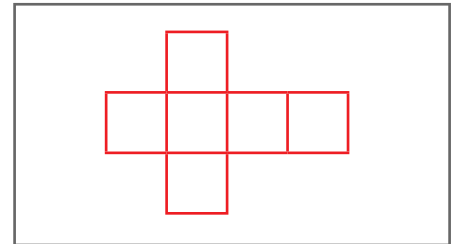
9 Calculate the area of each shape.



A = 30 squares    B = 22 squares  
 C = 35 squares

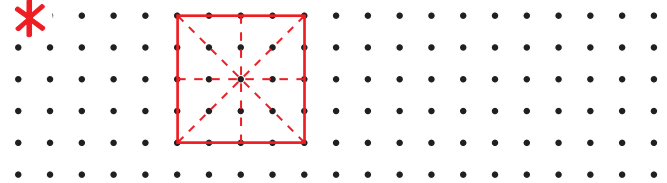
SHAPE

10 Draw a net \* for .



LOCATION & TRANSFORMATION

11 Draw a shape that has exactly 4 mirror lines. \*



STATISTICS & PROBABILITY

CHANCE

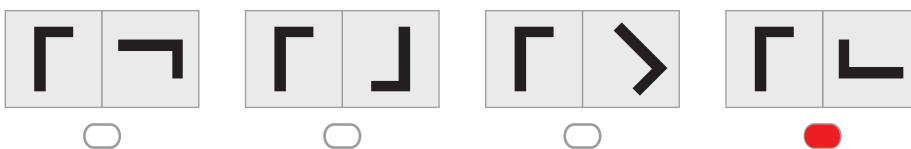
12 Draw lines to show the likelihood of each event.

Snow in summer	Flip heads on a coin	You will sleep tonight	The sun will rise	Milk in the fridge
Impossible	Unlikely	Even Chance	Likely	Certain
Win lotto	Dog riding a bike	A house number being odd	All homework correct	

*(Red lines connect: Snow in summer to Impossible; Flip heads on a coin to Unlikely; You will sleep tonight to Even Chance; The sun will rise to Certain; Milk in the fridge to Certain; Win lotto to Unlikely; Dog riding a bike to Unlikely; A house number being odd to Even Chance; All homework correct to Certain.)*

TESTER

Which picture shows a three-quarter turn clockwise?



Colour one bubble. 

MENTAL MATHS

ADDITION & SUBTRACTION

$6 + 6 = 12$	$8 + 8 = 16$	$42 - 9 = 33$
$3 + 7 = 10$	$13 + 4 = 17$	$35 - 9 = 26$
$5 + 9 = 14$	$4 + 6 = 10$	$21 - 9 = 12$
$3 + 8 = 11$	$2 + 7 = 9$	$48 - 9 = 39$
$11 + 4 = 15$	$9 + 9 = 18$	$67 - 9 = 58$

MULTIPLICATION & DIVISION

$9 \times 6 = 54$	$4 \times 7 = 28$	$21 \div 3 = 7$
$4 \times 8 = 32$	$3 \times 7 = 21$	$24 \div 4 = 6$
$3 \times 7 = 21$	$7 \times 7 = 49$	$30 \div 10 = 3$
$7 \times 6 = 42$	$5 \times 7 = 35$	$28 \div 4 = 7$
$6 \times 4 = 24$	$1 \times 7 = 7$	$40 \div 5 = 8$

NUMBER & PLACE VALUE

1 Write each number.

**18 631** eighteen thousand, six hundred and thirty-one

**21 219** twenty-one thousand, two hundred and nineteen

**74 104** seventy-four thousand, one hundred and four

**44 300** forty-four thousand, three hundred

2 Add 198 to these numbers.

$167$	$348$	$182$	$402$
<b>365</b>	<b>546</b>	<b>380</b>	<b>600</b>

3 Add 349 to these numbers.

$150$	$299$	$405$	$151$
<b>499</b>	<b>648</b>	<b>754</b>	<b>500</b>

4 Halve these numbers.

$50 \rightarrow 25$	$86 \rightarrow 43$	$98 \rightarrow 49$
$128 \rightarrow 64$	$130 \rightarrow 65$	$74 \rightarrow 37$

5 Loop together the pairs that are easy to add. Then write the total.

Total = **160**

Total = **120**

Total = **250**

Total = **230**

MONEY & FINANCIAL MATHEMATICS

6 Calculate the cost of these buys.



phone and laptop

$565$	$665$
$+100$	$+79$
<hr/>	<hr/>
$665$	$744$

Total = \$ **744**

speakers and camera

$347$	$547$
$+200$	$+18$
<hr/>	<hr/>
$547$	$565$

Total = \$ **565**

laptop and camera

$565$	$765$
$+200$	$+18$
<hr/>	<hr/>
$765$	$783$

Total = \$ **783**

phone and speakers

$347$	$447$
$+100$	$+79$
<hr/>	<hr/>
$447$	$526$

Total = \$ **526**

NUMBER & ALGEBRA

**i** You can use **compatible pairs** to make addition easier. For example, when you see  $52 + 13 + 28 + 37$ , add the pairs that are easy ( $52 + 28$  and  $13 + 37$ ) first.

\* Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

7 a. Write 4 things you do in the a.m. time period.

- \* eat breakfast
- get dressed
- go to school
- have recess/morning tea

b. Write 4 things you do in the p.m. time period.

- \* eat lunch
- do homework
- play with my brother
- eat dinner

8 Write the time. Then loop a.m. or p.m.

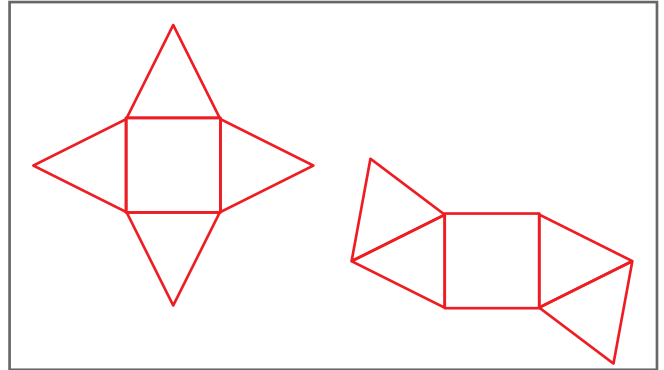
shoes on for school **7:45** **a.m.**  
**p.m.**

a.m. **6:50** shower before bed **p.m.**

eat morning tea **10:20** **a.m.**  
**p.m.**

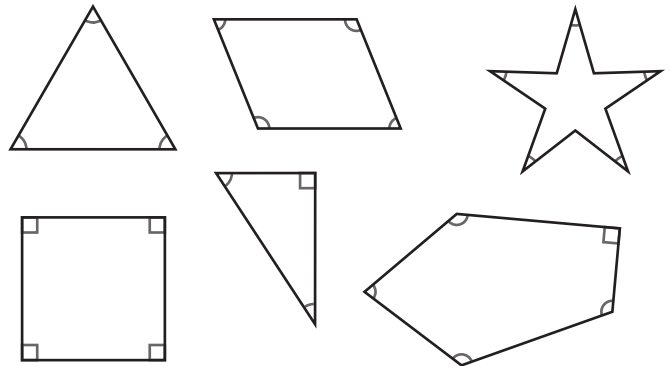
SHAPE

9 Draw 2 different nets that will fold to make a square-based pyramid.



GEOMETRIC REASONING

10 Look at the angles that are marked. Write the number of each type.



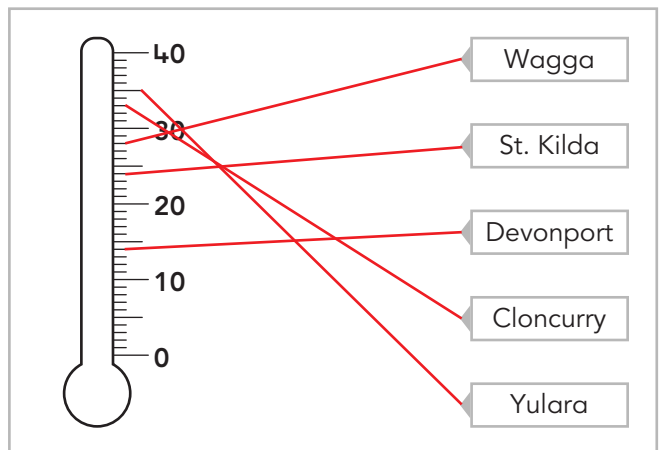
acute **13** right **6** obtuse **5**

STATISTICS & PROBABILITY

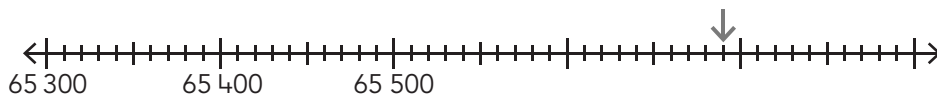
DATA REPRESENTATION & INTERPRETATION

11 Draw a line to connect each town to the temperature shown in the table.

Town	Temperature (°C)
Cloncurry	33
Devonport	14
Yulara	35
St. Kilda	24
Wagga	28



TESTER



What number is the red arrow pointing to? **65 690**

Write your answer in the box.

PARENT/CARER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

MENTAL MATHS

**ADDITION & SUBTRACTION**

$7 + 3 = 10$	$16 + 24 = 40$	$14 - 6 = 8$
$7 + 6 = 13$	$26 + 3 = 29$	$11 - 3 = 8$
$3 + 18 = 21$	$42 + 18 = 60$	$20 - 14 = 6$
$4 + 6 = 10$	$34 + 8 = 42$	$18 - 14 = 4$
$8 + 10 = 18$	$65 + 15 = 80$	$24 - 13 = 11$

**MULTIPLICATION & DIVISION**

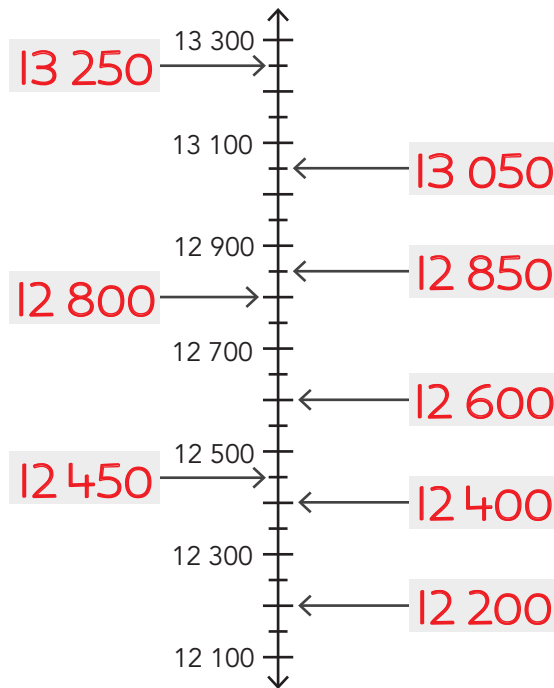
$7 \times 11 = 77$	$30 \times 8 = 240$	$12 \div 3 = 4$
$8 \times 7 = 56$	$60 \times 7 = 420$	$30 \div 5 = 6$
$7 \times 2 = 14$	$8 \times 40 = 320$	$27 \div 3 = 9$
$6 \times 7 = 42$	$70 \times 5 = 350$	$44 \div 11 = 4$
$7 \times 7 = 49$	$3 \times 40 = 120$	$16 \div 4 = 4$

**NUMBER & PLACE VALUE**

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

1000 less	60 532	28 401	83 291	49 325
	61 532	29 401	84 291	50 325
1000 more	62 532	30 401	85 291	51 325

2 Write the numbers in the boxes.



3 Find the difference between these scores.

342 points	136 points	407 points	725 points
$\begin{array}{r} 342 \\ -100 \\ \hline 242 \end{array}$	$\begin{array}{r} 242 \\ -36 \\ \hline 206 \end{array}$	$\begin{array}{r} 725 \\ -400 \\ \hline 325 \end{array}$	$\begin{array}{r} 325 \\ -7 \\ \hline 318 \end{array}$
Difference = 206		Difference = 318	

**MONEY & FINANCIAL MATHEMATICS**

4 Calculate the total cost of the groceries.

\$14.70 and \$13.40

$\$14.70 + 30c + \$13.10$

Total = \$ 28.10

\$12.80 and \$21.70

$\$12.80 + 20c + \$21.50$

Total = \$ 34.50

\$25.40 and \$11.50

$\$25.40 + \$11 + 50c$

Total = \$ 36.90

\$13.10 and \$7.80

$\$13.10 + \$7 + 80c$

Total = \$ 20.90

**PATTERNS & ALGEBRA**

5 Cross out the number that does **not** belong in each pattern.

- 6, 9, 12, ~~14~~, 15, 18, 21, 24, 27
- 25, 50, 75, 100, ~~110~~, 125, 150
- 1550, 2550, ~~3500~~, 3550, 4550, 5550
- 10000, 8000, 6000, ~~5000~~, 4000, 2000
- 9, 18, 27, 36, ~~41~~, 45, 54, 63, 72, 81



You can use a **place-value strategy** when adding dollar-and-cent amounts. For example, when you see \$18.30 + \$42.50 think \$18 + \$42 + 30c + 50c = \$60.80.

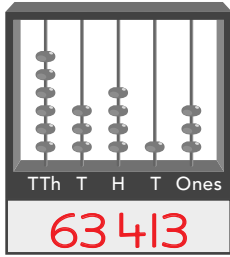
NUMBER & ALGEBRA



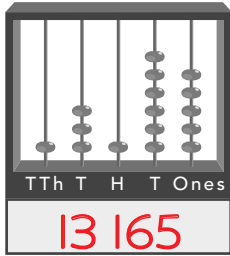


**NUMBER & PLACE VALUE**

1 Write the number and the number words.

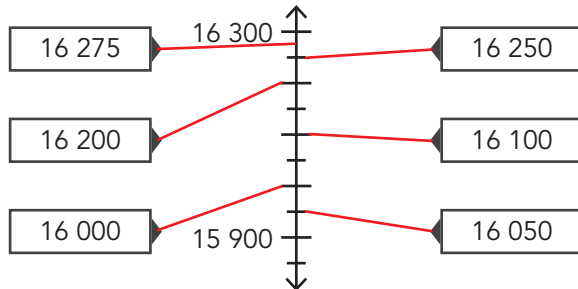


sixty-three  
thousand, four  
hundred and thirteen



thirteen thousand,  
one hundred and  
sixty-five

2 Draw a line to the correct place on the number line.

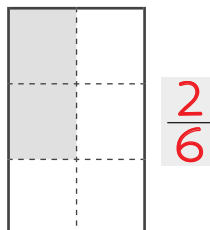
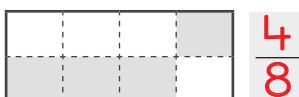
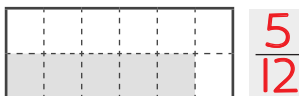


3 Double and halve to solve these.

$15 \times 6 = 90$ is the same as $30 \times 3 = 90$	$5 \times 18 = 90$ is the same as $10 \times 9 = 90$
$8 \times 35 = 280$ is the same as $4 \times 70 = 280$	$6 \times 25 = 150$ is the same as $3 \times 50 = 150$

**FRACTIONS & DECIMALS**

4 Write the fraction that is shaded.



5 Write equivalent fractions.

$\frac{2}{3}$ is the same as $\frac{6}{9}$	$\frac{1}{2}$ is the same as $\frac{5}{10}$
$\frac{3}{4}$ is the same as $\frac{9}{12}$	$\frac{3}{6}$ is the same as $\frac{6}{12}$
$\frac{8}{10}$ is the same as $\frac{4}{5}$	$\frac{3}{5}$ is the same as $\frac{6}{10}$

**MONEY & FINANCIAL MATHEMATICS**

6 Calculate the total cost of each buy.

Buy 1.  Total = \$ <b>18.00</b>	Buy 2.  Total = \$ <b>75.30</b>
---------------------------------------	---------------------------------------

7 Calculate the total cost.

 phone and speakers $177$ $+100$ <hr/> $277$ $+63$ <hr/> \$ <b>340</b>	 speakers and laptop $595$ $+100$ <hr/> $695$ $+77$ <hr/> \$ <b>772</b>	 laptop and phone $595$ $+100$ <hr/> $695$ $+63$ <hr/> \$ <b>758</b>
--	---	--

**PATTERNS & ALGEBRA**

8 Cross out the part that is incorrect in each pattern.

5, 10, 20, 40, ~~60~~, 80, 160, 320, 640

3470, 3370, 3270, ~~3207~~, 3170, 3070

9, 16, 23, 30, ~~35~~, 37, 44, 51, 58, 65

122, 119, 116, 113, 110, 107, ~~103~~

\* Answers will vary. This is one example.

MEASUREMENT & GEOMETRY

USING UNITS OF MEASUREMENT

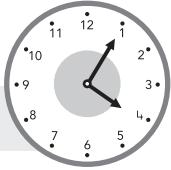
9 Convert these lengths.

$4\frac{1}{4}$ m	<b>4250</b> mm	15 m	<b>15 000</b> mm
$72\frac{1}{4}$ m	<b>72 250</b> mm	900 mm	<b><math>\frac{9}{10}</math></b> m
$18\frac{1}{4}$ m	<b>18 250</b> mm	1500 mm	<b><math>1\frac{1}{2}</math></b> m

10 Write the digital time and loop a.m. or p.m.


Wake up before sunrise

**4:10** **a.m.** **p.m.**



Fireworks display

**7:40** **a.m.** **p.m.**

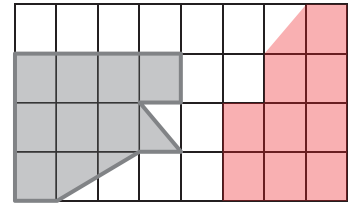


11 Match the times.

$\frac{1}{2}$ minute	$\frac{1}{2}$ hour
$2\frac{1}{2}$ days	30 seconds
30 minutes	$1\frac{1}{2}$ minutes
90 seconds	60 hours

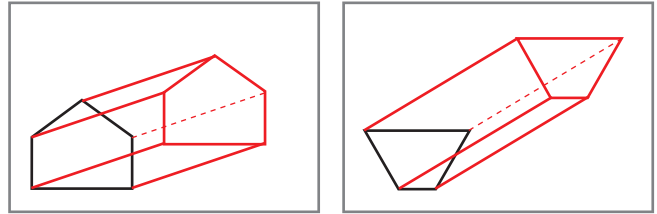
*(Red lines connect  $\frac{1}{2}$  minute to 30 seconds,  $2\frac{1}{2}$  days to 60 hours, 30 minutes to  $1\frac{1}{2}$  minutes, and 90 seconds to  $\frac{1}{2}$  hour)*

12 Draw a different shape that has the same area.



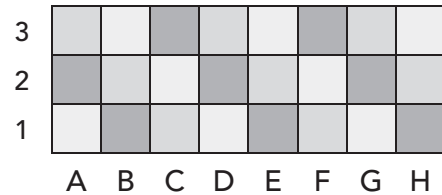
SHAPE

13 Two prism bases are shown below. Complete each drawing.



LOCATION & TRANSFORMATION

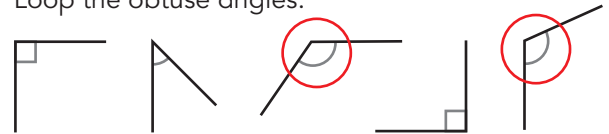
14 Write the colour of these grid squares.



F2 = **yellow** H1 = **purple** A3 = **green**

GEOMETRIC REASONING

15 Loop the obtuse angles.

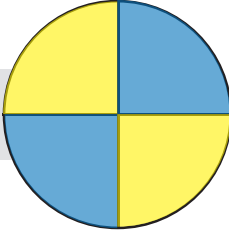


STATISTICS & PROBABILITY

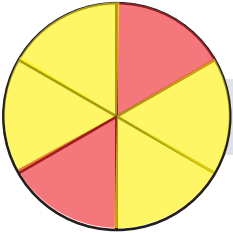
CHANCE

16 Colour the spinner to match the label.

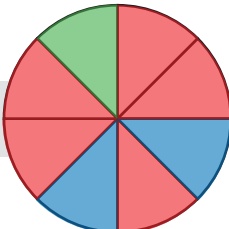
Yellow and blue have an equal chance.



Yellow is more likely than red.

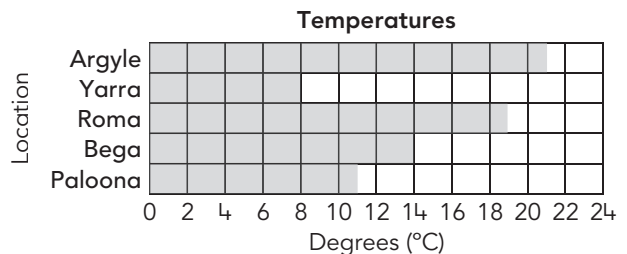


Green is unlikely.



DATA REPRESENTATION & INTERPRETATION

17 Use the graph to complete the table.



Locations	Degrees (°C)
Argyle	<b>21</b>
Yarra	<b>8</b>
Roma	<b>19</b>
Bega	<b>14</b>
Paloona	<b>11</b>