

310	320		340	350
360	370	380		400
410		430	440	450
460	470	480	490	
510	520	530	540	550
	570		590	600
610		630	640	650

- 1**
- a Fill in the missing numbers.
 - b Fill in the last line.
 - c Write all the numbers between 450 and 460.

- d Colour red the numbers 10 more than 370, 540, 620, 480.
- e Colour blue the numbers 10 less than 330, 490, 610, 550.
- f Write the numbers 100 more than:

340 _____, 400 _____, 590 _____, 370 _____



2 Write each number:

- a fifty-six _____
- b two hundred and nineteen _____
- c five hundred and thirty _____
- d ninety-five _____
- e four hundred and eighty-seven _____
- f seven hundred and one _____

3 Complete:

- a $961 = 900 + 60 + \square$
- b $784 = \square + \square + \square$
- c $308 = \square + 0 + \square$
- d $560 = \square + \square + \square$



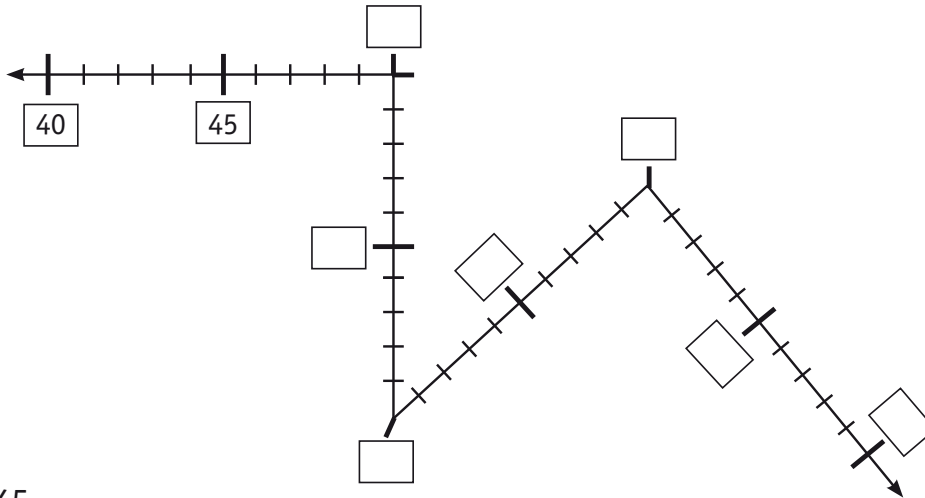
4 What's my number?

- a My number is larger than 350, but smaller than 425.
It has double the number of hundreds in the tens place.
Its ones number is 2 less than its tens number. It is _____.
- b My number is less than half of a thousand.
It is made up of odd numbers only. Its tens number
is half way between the hundreds number and the
ones number in size. It is _____.

Self Assessment 😊 😊 😊

ACMNA052 Number and place value • Recognise, model represent and order numbers to at least 10 000.	Score	Basic	Sound	High

1 Write the numbers in the boxes on the number line.



2 Start at 45.

- a Go forward 7 _____, then go back 3 _____, then go forward 8 _____, then go back 13 _____.
- b The number where you landed is double _____.



3 Find the tens and then the total.

- a $9 + 7 + 1 =$ _____
- b $8 + 2 + 6 =$ _____
- c $3 + 6 + 4 =$ _____

4 Double.

- a 6 _____
- b 15 _____
- c 18 _____
- d 40 _____

5 Use the number line.

- a $43 + 19 =$ _____
- b $64 + 8 =$ _____
- c $52 + 27 =$ _____



6 Write the number sentence:

- a I have 45 songs and download 6 more. Gran gives me 15 of hers as well.
How many do I have? _____
- b The temperature starts at 27° C but rises 12° by lunch and 4° after lunch.
What is the temperature after lunch? _____
- c There are 24 children in Yr 2, 25 in Yr 3 and 20 in Yr 4.
How many children in the three classes? _____

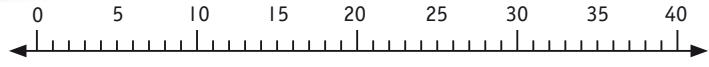
Self Assessment 😊😊😊

ACMNA055 Number and place value • Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation.	Score	Basic	Sound	High
--	-------	-------	-------	------

Assessment 3

Subtraction

Name _____



1 Use the number line.

- a $18 - 9 = \underline{\quad}$ b $23 - 5 = \underline{\quad}$ c $38 - 7 = \underline{\quad}$ d $26 - 5 = \underline{\quad}$
 e $23 - 11 = \underline{\quad}$ f $32 - 14 = \underline{\quad}$ g $29 - 16 = \underline{\quad}$ h $34 - 27 = \underline{\quad}$

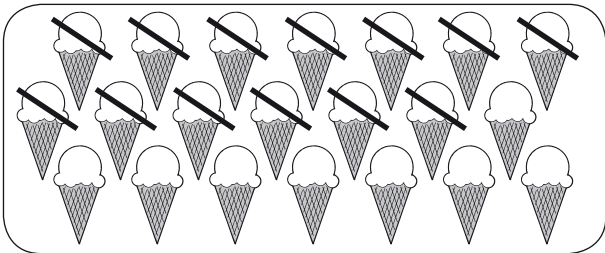
- 2 a 16 apples, 9 eaten. How many left? _____
 b \$33, \$21 spent. How much left? _____
 c 25 ice blocks, 15 melted. How many left? _____

- 3 a $7 - 4 = 3$ b $9 - 5 = \underline{\quad}$ c $8 - 3 = \underline{\quad}$
 $70 - 40 = 30$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $700 - 400 = 300$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$

- 4 a From 17 subtract 9 _____ b Take 8 away from 22 _____
 c 20 take away 11 _____ d Difference between 6 and 14 _____
 e 30 minus 12 _____ f 25c less 10c _____



5 Write a story and a number sentence.



_____ = _____

- 6 a Write 4 number facts using the numbers 3, 8, 11.
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$, $\underline{\quad} + \underline{\quad} = \underline{\quad}$, $\underline{\quad} - \underline{\quad} = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
 b Write 4 number facts using the numbers 7, 11 and your choice.

7 Use a number line.

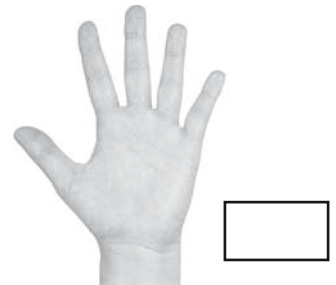
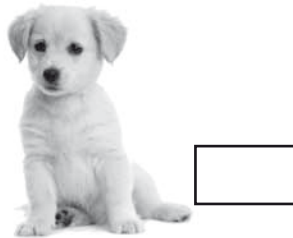
- a $48 - 13 = \underline{\quad}$ ←—————● 48
 b $65 - 37 = \underline{\quad}$ ←—————● 65
 c $\begin{array}{r} 77 \\ - 25 \\ \hline \end{array}$ ←—————●

Self Assessment

ACMNA055 Number and place value • Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation.	Score	Basic	Sound	High
---	-------	-------	-------	------

Length

1 Metres (m) or centimetres (cm)?



2 a Which two are the same length? _____

A _____

B _____

C _____

D _____

b Their length is _____



3 Measure these lines and write their lengths.



a _____ b _____ c _____ d _____ e _____

4 Would you use metres (m) or centimetres (cm) to measure:

a the length of a hose? _____

b the height of a cat? _____

c the height of a dinosaur? _____

d the width of a chair? _____

e a baby's height? _____

f the length of a train? _____



5 Estimate in centimetres:

a height of the door. _____

b height of your desk. _____

c length of this page. _____

d width of your hand. _____

Self Assessment 😊😊😊

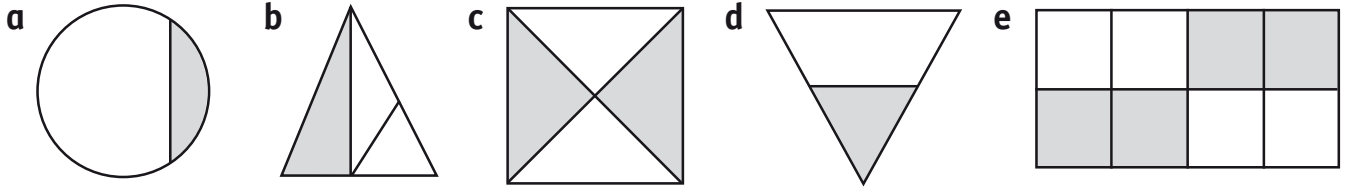
ACMMG061 Using units of measurement • Measure, order and compare objects using familiar metric units of length, mass and capacity.	Score	Basic	Sound	High

Assessment 5

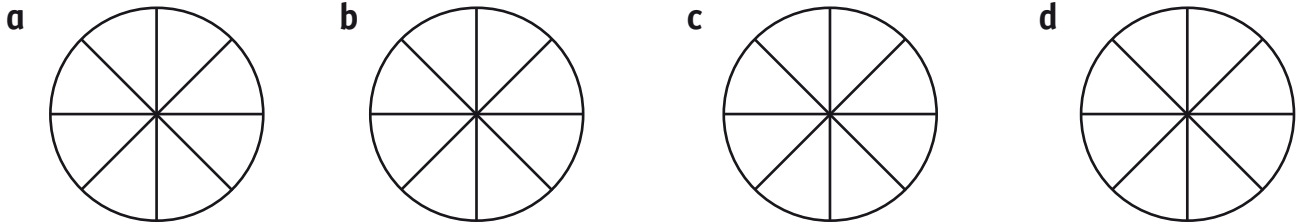
Fractions

Name _____

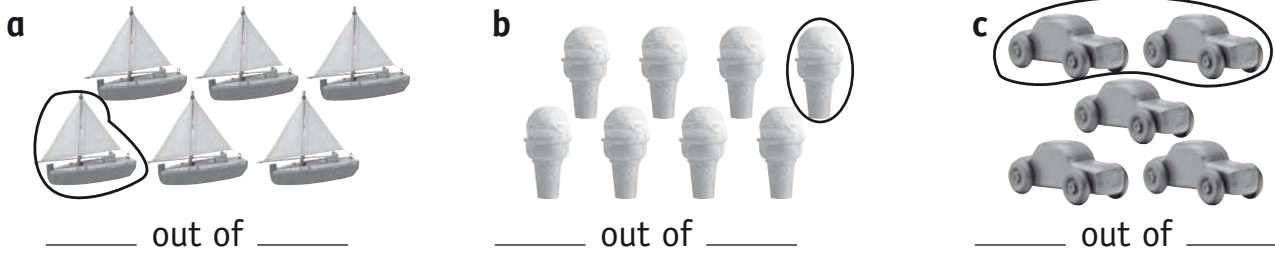
1 Circle pictures which have $\frac{1}{2}$ shaded.



2 Colour $\frac{1}{4}$ of each shape in different ways.



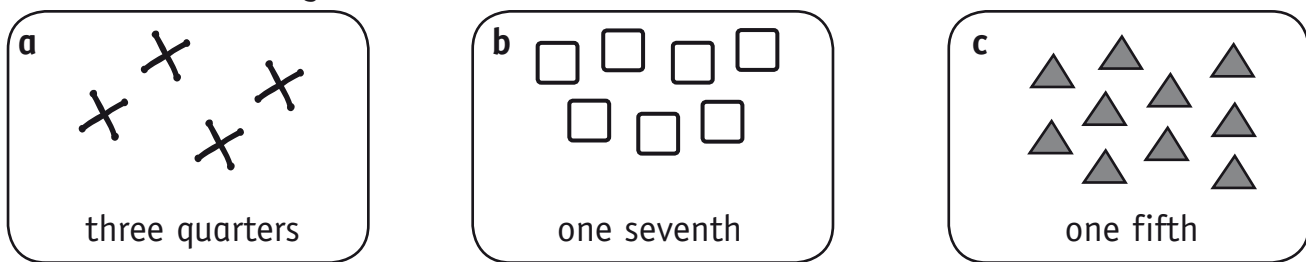
3 What part of each group is circled?



4 Write in numbers:

- a one sixth _____ b one eighth _____ c one tenth _____
 d two thirds _____ e two fifths _____

5 Circle the fraction given.



6 Divide these shapes to show the fraction given. Which is bigger? _____



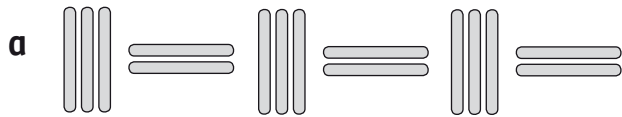
Self Assessment 😊😊😊

ACMNA058 Fractions and decimals • Model and represent unit fractions including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$ and their multiples to a complete whole.	Score	Basic	Sound	High

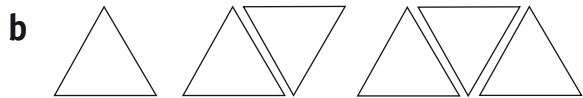
Patterns

Name _____

1 Draw another complete term for each pattern.



What number pattern are the sticks making?



How many triangles will be in the next term? _____ the 10th term? _____

2 Finish each pattern and write the rule.

a 17, 18, 19, 20, _____, _____, _____ Rule _____

b 20, 18, 16, 14, _____, _____, _____ Rule _____

c 80, 90, 100, 110, _____, _____, _____ Rule _____

3 Make up your own number pattern and write the rule.

_____, _____, _____, _____, _____ Rule _____

4 John collects shells in a way that makes a pattern; 2 on Saturday, 4 on Sunday, 6 on Monday. On what day will he collect 12 shells if he keeps to this pattern? _____

5 My Aunty runs 2 km every day of the week that has an 's' in it, eg Wednesday. How many km does she run every week? _____

6 Write the next three terms and write the rule:

a 1, 2, 4, 8, _____, _____, _____ Rule _____

b 10, 13, 16, 19, _____, _____, _____ Rule _____

c 24, 21, 18, 15, _____, _____, _____ Rule _____

7 a Count by 4s to 28 _____, _____, _____, _____, _____, _____, _____

b Circle the last digit of each number.

Write the pattern here. _____, _____, _____, _____, _____, _____

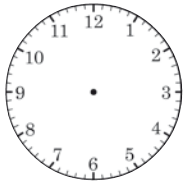
c What will be the tenth term of the 4s pattern? _____

Self Assessment 😊😊😊

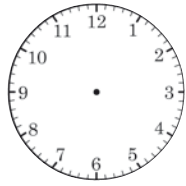
ACMNA060 Patterns and algebra • Describe, continue, and create number patterns resulting from performing addition or subtraction.	Score	Basic	Sound	High
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Time

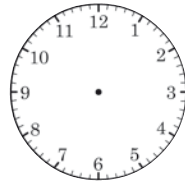
1 Draw the time.



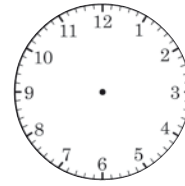
a 7 o'clock



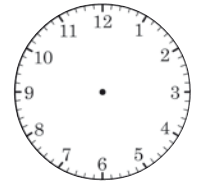
b $\frac{1}{2}$ past 3



c $\frac{1}{4}$ to 8



d 5 past 6



e 10 to 9

2 Write the time on a digital clock.



a half past 4

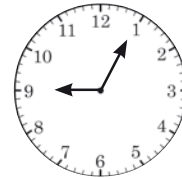
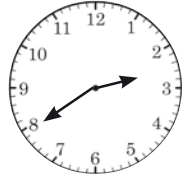


b a quarter to 9



c a quarter past 5

3 Match the times to the correct clock.



20 to 3
midday
 $\frac{1}{4}$ past 1
nine-oh-five
25 past 10
5 minutes to 9
 $\frac{1}{2}$ past 7
15 minutes to 4



4 What do you do at:

a 9 o'clock in the morning? _____

b 1 o'clock in the afternoon? _____

c 11 o'clock in the night? _____



5 Write three things that take about 5 minutes to do.

6 How many minutes between:

a 12 o'clock and 20 past 12? _____

b 8 o'clock and 9 o'clock? _____

c $\frac{1}{4}$ past 5 and $\frac{1}{2}$ past 5? _____

d $\frac{1}{4}$ to 11 and 11 o'clock? _____

e 20 past 6 and 20 to 7? _____

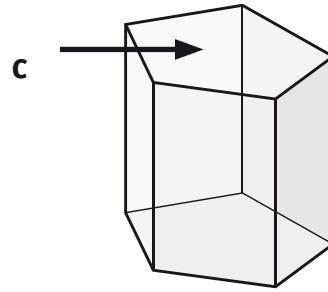
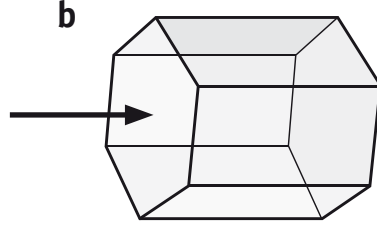
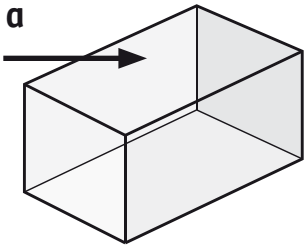
f 25 past 2 and $\frac{1}{4}$ to 3? _____

Self Assessment 😊😊😊

ACMMG062 Using units of measurement • Tell time to the minute and investigate the relationship between units of time.	Score	Basic	Sound	High
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3D Objects

1 Name the shape of each face.

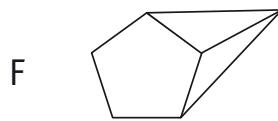
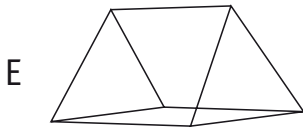
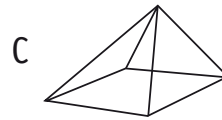
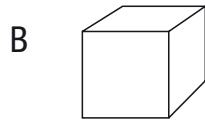
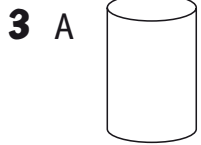


2 Name:

a two objects shaped like spheres. _____

b two objects shaped like cubes. _____

c two objects shaped like cylinders. _____



a Name A _____ C _____ D _____

b Colour the sphere blue.

c Draw a circle around the prisms.

d Colour the pyramids green.

e How many faces has F? _____



4 What am I?

a I have only one curved surface. _____

b I have 6 square faces. _____


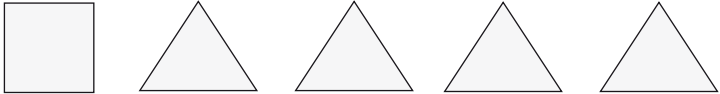

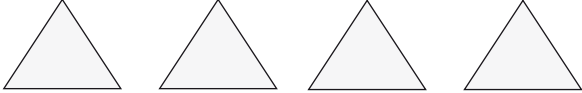
c My base is a square and my other faces are all triangles. _____

d I have one flat surface and 1 curved surface. _____

Self Assessment 😊😊😊

ACMMG063 Shape • Make models of three-dimensional objects and describe key features.	Score	Basic	Sound	High

5 What 3D object could you make with these faces?

a		_____ _____
b		_____ _____
c		_____ _____
d		_____ _____



6 Draw:

a cube.	a pyramid.
---------	------------

7 What is the difference between a triangular prism and a triangular pyramid? Explain, draw and label.

Self Assessment 

ACMMG063 Shape • Make models of three-dimensional objects and describe key features.	Score	Basic	Sound	High
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Data

- 1 What does this graph show?

- 2 Which activity is most popular?

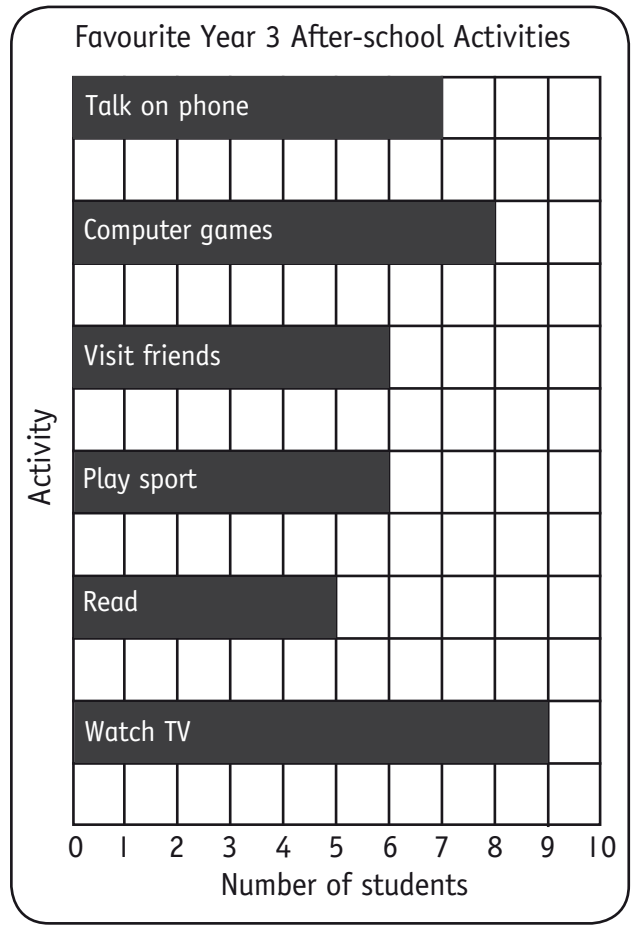
- 3 Which activity is least popular?

- 4 How many students like to read?

- 5 Which two activities have the same popularity?

- 6 How many children were asked?

- 7 Which activity is your favourite?

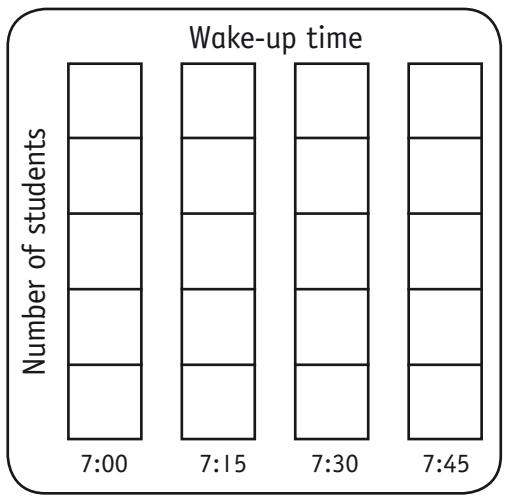


8 Some Year 3 students want to draw a graph to show the time they wake up.

Help them by colouring the correct number of boxes.

Each shows 2 students.

TIME	STUDENTS
7:00 am	4
7:15 am	6
7:30 am	9
7:45 am	5



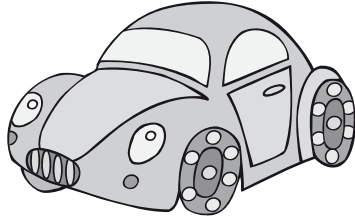
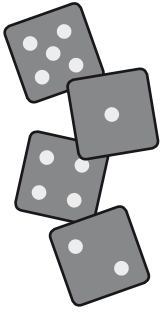
- 9 a How many students were surveyed? _____
- b True/False? More students wake before 7:30 than after 7:15.
- c True/False? 4 students have their breakfast at 7:00.
- d True/False? Altogether you should colour 12.

Self Assessment 😊 😊 😊

ACMSP069 Data representation and interpretation • Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies.	Score	Basic	Sound	High

Chance

I



Write sentences about these pictures describing events that are

a unlikely

b likely

c certain

d impossible



2 When you toss a die, what are the possible outcomes?

3 a If there are 5 red apples in a bag, what chance do you have of choosing a green apple?

b How can you put 5 apples in a bag so that you have a better chance of choosing a red one than a green one?

4 How many outcomes are possible:

a for a soccer team when they play a match? _____

b for a 9 sided die when it is tossed? _____

Self Assessment 😊 😊 😊

<p>ACMSP067 Chance • Conduct chance experiments, identify and describe possible outcomes and recognise variation in results.</p>	<p>Score</p>	<p>Basic</p>	<p>Sound</p>	<p>High</p>
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Numbers over 1000

1 Write the numbers one more than:

- a 29 _____ b 116 _____ c 940 _____ d 1245 _____ e 6994 _____

2 Write the numbers one less than:

- a 64 _____ b 348 _____ c 550 _____ d 3790 _____ e 8002 _____

3 Match the numbers.

sixty-five	406	650	four hundred and six
nine thousand three hundred and twelve	65	9312	six hundred and fifty
two thousand eight hundred and forty	499	2840	two thousand one hundred and ninety-one
four hundred and ninety-nine	237	2191	five thousand five hundred and sixteen
two hundred and thirty-seven	1011	5516	one thousand and eleven



4 a $900 + 30 + 7 = \square$

b $\square + 80 + 1 = 681$

c $1000 + 400 + \square + 3 = 1493$

d $6000 + \square + 50 + \square = 6152$

e $8245 = \square + \square + \square + 5$ f $506 = \square + \square + \square$



5 Circle the larger.

- a 349 3049 b 652 6522 c 1006 1060

6 Circle the tens number.

- a 3490 b 258 c 1040

7 Write these in ascending order. 4580, 4850, 4085, 580

Self Assessment 😊 😊 😊

ACMNA052 Number and place value • Recognise, model represent and order numbers to at least 10 000.	Score	Basic	Sound	High
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Assessment 12

Subtraction

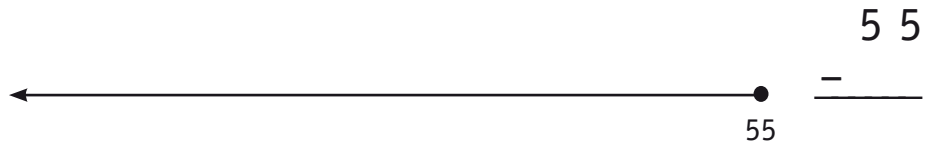
Name _____

I Use the number line to subtract.

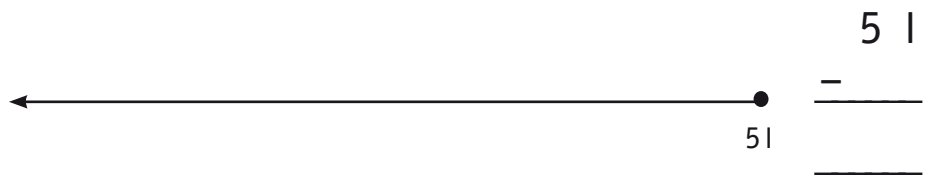
a 67 minus 23



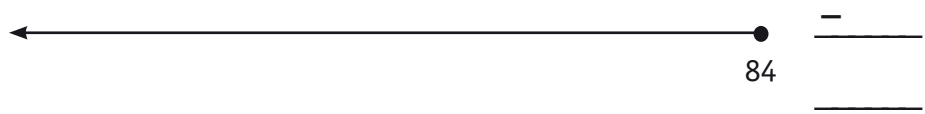
b 55 take away 32



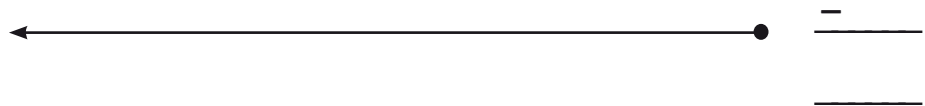
c subtract 13 from 51



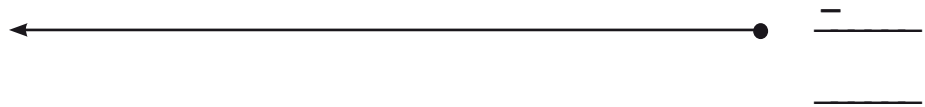
d 84 less 37



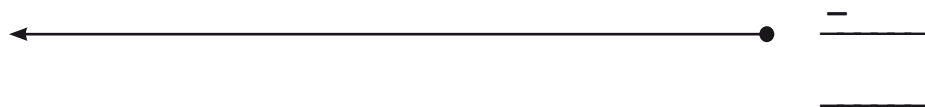
e difference between
83 and 35



f $88 - 29 - 17$



g $97 - 38 - 17$



Self Assessment



ACMNA055 Number and place value • Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation.

Score

Basic

Sound

High

Subtraction strategies

5 Write three more facts.

a $16 - 9 =$ _____ $16 - 7 =$ _____ $7 + 9 =$ _____ $9 + 7 =$ _____

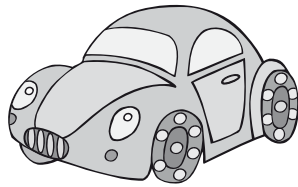
b $13 - 4 =$ _____ _____ _____ _____

c $14 - 8 =$ _____ _____ _____ _____

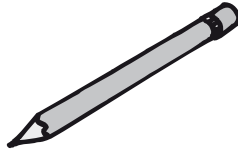
6



75c



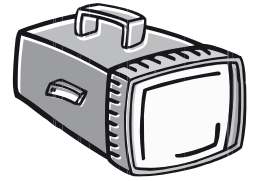
90c



45c



65c



60c

In a sale 25c was taken off each price. Write the new prices.

book _____ car _____ pencil _____ cake _____ torch _____

7 Count on to complete.

	47	39	45	49	40	48	50	43
-38								

8 Fill in the gaps.

a
$$\begin{array}{r} 7 \square \\ - 25 \\ \hline \square 4 \end{array}$$

b
$$\begin{array}{r} \square 9 \\ - 34 \\ \hline 5 \square \end{array}$$

c
$$\begin{array}{r} \square \square \\ - 53 \\ \hline 20 \end{array}$$

d
$$\begin{array}{r} 86 \\ - \square \square \\ \hline 51 \end{array}$$



9 Write a story and a question to match the number sentence:

a $36 - 14 = 12$ metres

b $50 - 35 = 15$ boys

c $28 - 13 = 15$ frogs

10 Dad told me he had two amounts of money which had a difference of \$4.50.

The amounts were between \$10 and \$20. What amounts might he have? _____

Self Assessment 😊😊😊

ACMNA055 Number and place value • Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation.	Score	Basic	Sound	High

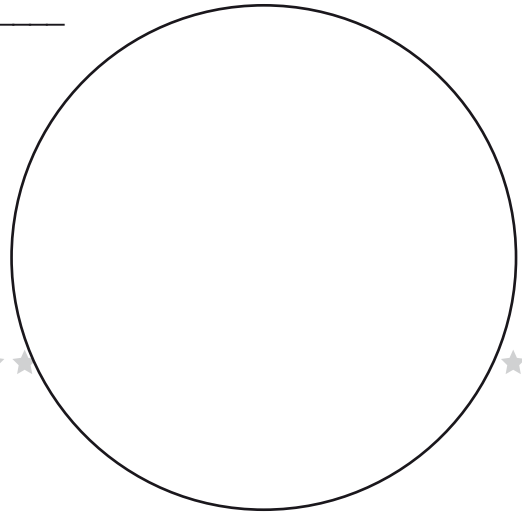
Fractions

1 Colour the fraction. Write the name of a smaller fraction.

a $\frac{2}{3}$

b $\frac{4}{5}$

2 4 men get two slices of a pizza each and there is none left. How much of the pizza did each man get? _____
Draw each man's share.



3 Complete:

a $\frac{1}{5}, \frac{2}{5}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \frac{5}{5}$

b $\frac{1}{8}, \frac{2}{8}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 1$

4 Complete the sequence of mixed numbers.

a 0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 _____ _____ _____ 2

b 0 $\frac{1}{3}$ $\frac{2}{3}$ 1 _____ _____ _____

5 Place these mixed numbers in order, smallest to largest.

a $1\frac{1}{2}, 2\frac{1}{2}, 2, \frac{1}{2}, 1,$ _____

b $2\frac{1}{5}, 1\frac{1}{5}, 2, \frac{1}{5}, 1,$ _____

6 Draw a diagram to show:

a $\frac{1}{4}$ of 16 stars.

b $\frac{1}{3}$ of 6 bananas.

Self Assessment 😊 😊 😊

ACMNA058 Fractions and decimals • Model and represent unit fractions including $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{5}$ and their multiples to a complete whole.	Score	Basic	Sound	High

Number patterns

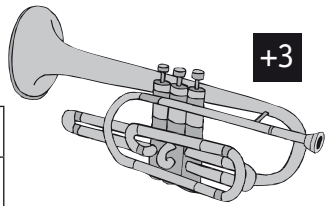
- 1** a Add 6 6, 12, 18, 24, _____, _____, _____, _____
 b Subtract 4 40, 36, 32, 28, _____, _____, _____, _____
 c $\times 2$ 1, 2, 4, 8, _____, _____, _____, _____

2 Complete these patterns.

- | | | |
|--|--|--|
| <p>a $28 + 5 = 33$
 $38 + 5 = \underline{\quad}$
 $48 + 5 = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$</p> | <p>b $63 - 6 = 57$
 $53 - 6 = \underline{\quad}$
 $43 - 6 = \underline{\quad}$
 $\underline{\quad} - \underline{\quad} = \underline{\quad}$
 $\underline{\quad} - \underline{\quad} = \underline{\quad}$</p> | <p>c $57 + 9 = 66$
 $67 + 9 = \underline{\quad}$
 $77 + 9 = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$</p> |
|--|--|--|



3 This trumpet makes a pattern of numbers by adding 3.
 What do these numbers become if they are blown into the trumpet?



IN	0	4	9	17
OUT	3, _____, _____	_____, _____, _____	_____, _____, _____	_____, _____, _____

- 4** a Benni's pattern: 5, 10, 20, 40, _____ What is Benni's rule? _____
 b Max's pattern: 42, 39, 36, 33, _____ What is Max's rule? _____
 c Mrs Watts' pattern: 0.6, 0.8, 1.0, 1.2 What is her rule? _____
 d Professor Gumly's pattern: 3, 7, 11, 15 Will 27 be in the pattern? _____
 e Mr Rudd's pattern: 6, 12, 18, 24 Will 38 be in his pattern? _____



5 My Uncle Foxy had a party but only allowed people carrying the right objects, according to a pattern. Can you decide what the pattern is, from these clues?

Name	Object	Yes/No
Jak	jelly	yes
Cal	watermelon	no
Joh	cheese	yes
Len	apples	yes

Rule? _____
 Will Harry, bringing berries, be allowed into the party? _____
 Why? _____

Self Assessment 😊 😊 😊

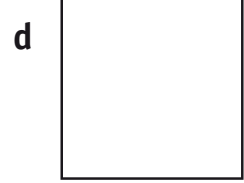
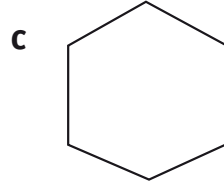
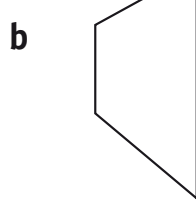
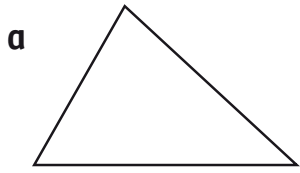
ACMNA060 Patterns and algebra • Describe, continue, and create number patterns resulting from performing addition or subtraction.	Score	Basic	Sound	High
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Assessment 17

2D Space

Name _____



1 Name these shapes.



2 Draw:

2 parallel lines.	a parallelogram.	a trapezium.

3 Complete.

Shape	Name	Sides	Angles
	<i>Rectangle</i>		
			
		8	

4 Circle the part that means three. triangle

Circle the part that means six. hexagon

Circle the part that means five. pentagon

In 'octagon', what does 'octa' mean? _____

Self Assessment 😊 😊 😊

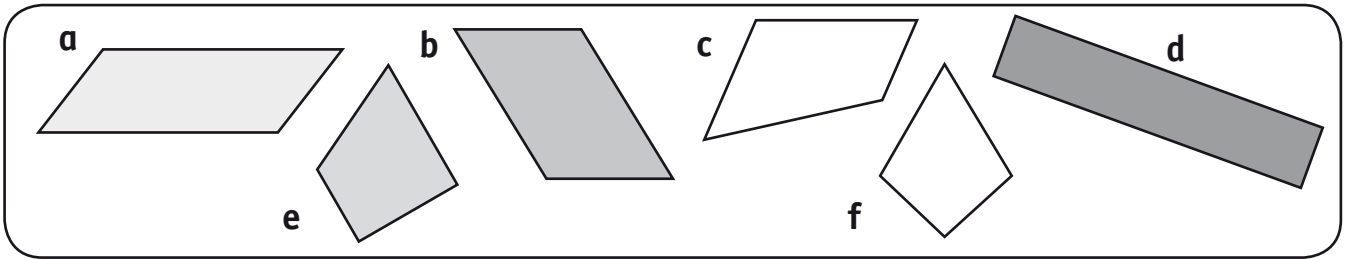
Revise: ACMMG042 Shape • Describe and draw two-dimensional shapes, with and without digital technologies.	Score	Basic	Sound	High

Assessment 17

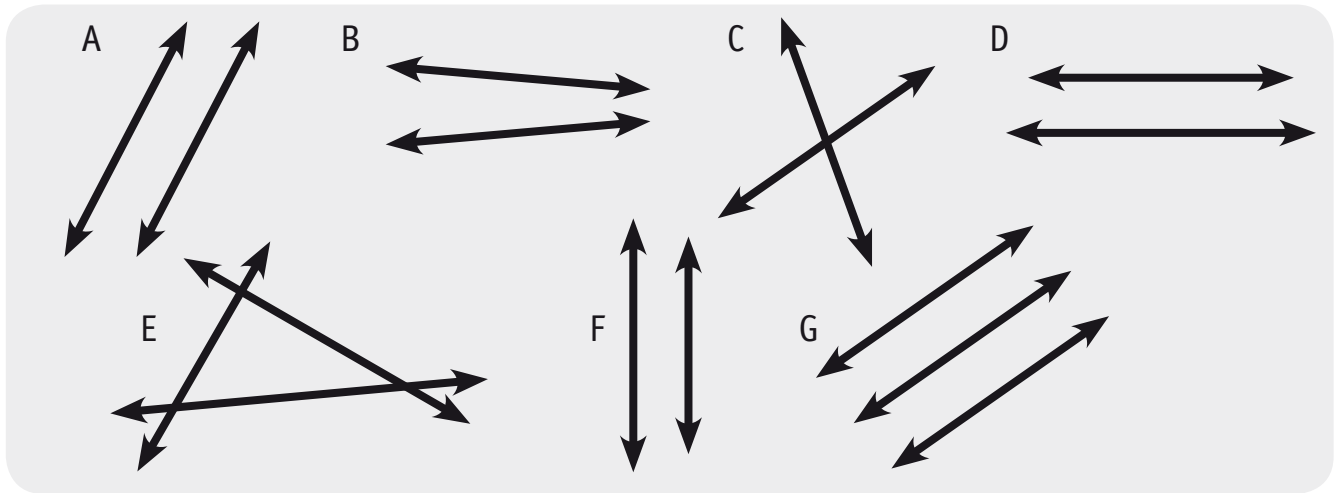
2D Space

Name _____

5 Circle the parallelograms.



6



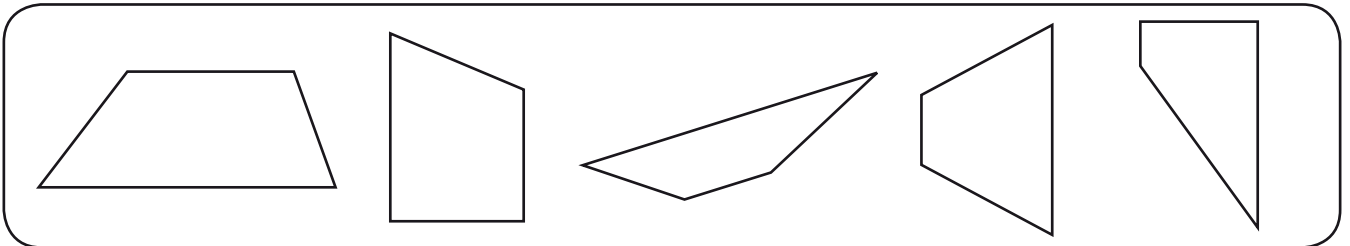
a Which ones show parallel lines? _____

b The lines in C are not parallel. Why? _____

c Rule three different pairs of parallel lines.

--	--	--

7



Each shape is a trapezium. Cross the parallel sides.

Self Assessment 😊😊😊

Revise: ACMMG042 Shape • Describe and draw two-dimensional shapes, with and without digital technologies.	Score	Basic	Sound	High

Assessment 18

Capacity

Name _____

1 Litres (L) or millilitres (mL)?

- a a dose of medicine _____
 c a small drink bottle _____
 e a large paint can _____

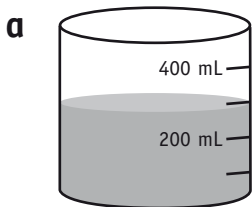
- b water in a bathtub _____
 d a carton of cream _____
 f a swimming pool _____

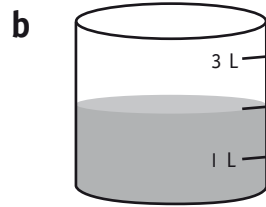
2 Name something which could be sold in:

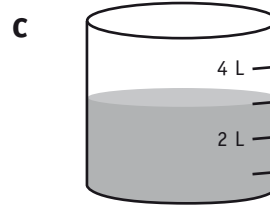
- a a 1 litre carton. _____
 c a 100 mL bottle. _____

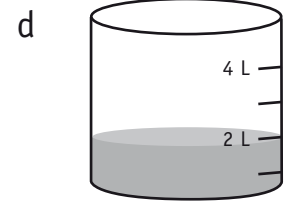
- b a 2 L bottle. _____
 d a 10 L can. _____

3 How much drink is in each container?

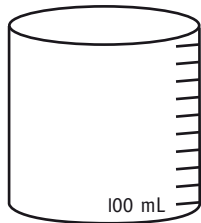






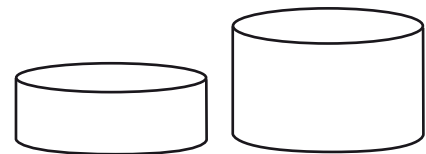


4



- a What is the capacity of this container? _____
 b Colour $\frac{1}{2}$ L.

5 a I have a 300 mL container and a 100 mL container. How can I measure exactly 1 L using only these containers?



6 True/False?

- a A car holds 50 L petrol. _____ b The capacity of a teapot is 10 L. _____
 c A glass holds 1200 mL liquid. _____ d A dose of medicine is 5 mL. _____

Self Assessment



ACMMG061 Using units of measurement • Measure, order and compare objects using familiar metric units of length, mass and capacity.

Score

Basic

Sound

High

Time facts

Name

1 Colour red for am and blue for pm.

Order the activities in the order you do them (1–6).

a go to bed _____

b eat morning tea _____

c start school _____

d wake up _____

e eat dinner _____

f finish school _____



2 How many:

a seconds in 1 minute? _____

b months in 1 year? _____

c hours in 1 day? _____

d minutes in 1 hour? _____

e days in 1 fortnight? _____

f weeks in 1 year? _____

3 Circle the earliest time, cross the latest time.

8 : 41 am

7 : 10 pm

3 : 43 pm

10 : 22 am



4 How many minutes:

a in our break at school? _____

b for our school assembly? _____

c in a school day? _____



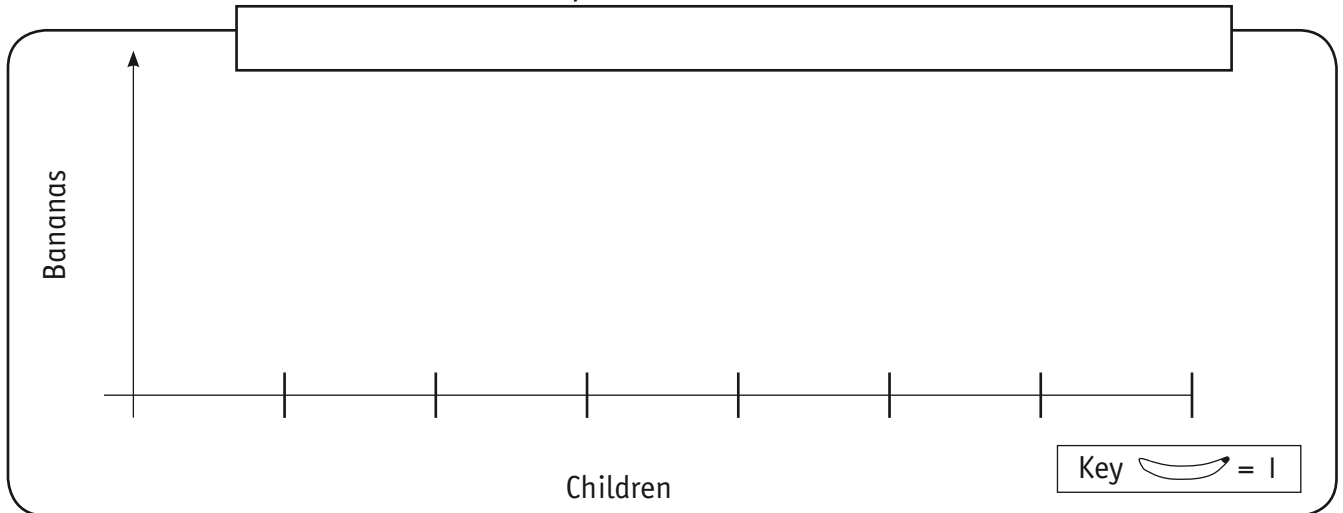
Self Assessment 😊 😊 😊

ACMMG062 Using units of measurement • Tell time to the minute and investigate the relationship between units of time.	Score	Basic	Sound	High
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Data

1 Some children held a banana-eating contest. Sam ate 6, Ellen ate 4, Freya ate 5, Jim ate 8, Jill ate 1, Tim ate 4 and Toby ate $3\frac{1}{2}$.

a Draw this information in a Picture Graph.



b Write a title for your graph.

c Who ate the most? _____ the least? _____

d Who ate the same number? _____

e How many did they eat altogether? _____

f Write two questions of your own about your graph.

- _____
- _____



2 a Present this information in a table.

Name	Bananas

b Which is better: a table or a picture graph?

c Why? _____

d Name another way to show this information.

Self Assessment

ACMSP070 Data representation and interpretation • Interpret and compare data displays.	Score	Basic	Sound	High
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Addition

Name _____

1 Find the total.

a

_____ + _____ = _____

b

_____ + _____ = _____

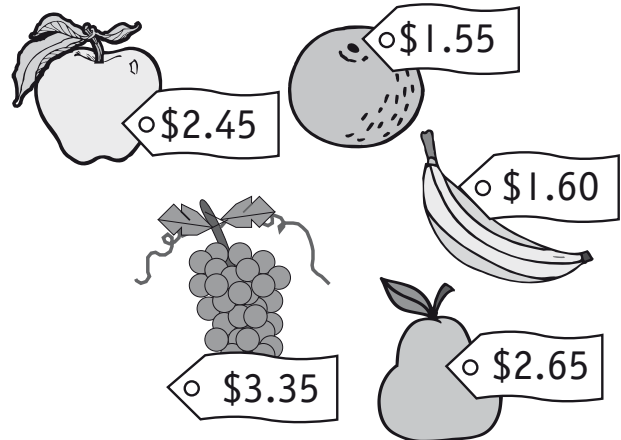
2

a	$\begin{array}{r} 235 \\ + 23 \\ \hline \end{array}$	b	$\begin{array}{r} 344 \\ + 15 \\ \hline \end{array}$	c	$\begin{array}{r} 672 \\ + 26 \\ \hline \end{array}$	d	$\begin{array}{r} 781 \\ + 18 \\ \hline \end{array}$	e	$\begin{array}{r} 352 \\ + 35 \\ \hline \end{array}$	f	$\begin{array}{r} 819 \\ + 70 \\ \hline \end{array}$
	_____		_____		_____		_____		_____		_____



3 How much do I spend if I buy:

- a** an apple and grapes? _____
- b** 2 oranges? _____
- c** a banana, a pear and grapes? _____
- d** 2 pears and a banana? _____
- e** one of everything? _____



4

5

a	$\begin{array}{r} 3 \square \\ + 26 \\ \square 8 \\ \hline \end{array}$	b	$\begin{array}{r} 53 \\ + 1 \square \\ \square 7 \\ \hline \end{array}$
	_____		_____
c	$\begin{array}{r} \square \square \\ + 55 \\ 89 \\ \hline \end{array}$	d	$\begin{array}{r} \square 0 \\ + 6 \square \\ 87 \\ \hline \end{array}$
	_____		_____

Self Assessment 😊 😊 😊

ACMNA055 Number and place value • Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation.	Score	Basic	Sound	High
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Multiplication

1 a Count by 3s from 0 to 50.

b Count by 4s from 0 to 80.

c Count by 5s from 0 to 100.

2 a How many groups? _____



b How many hats in each group? _____

c How many hats altogether? _____



d _____ + _____ + _____ + _____ = _____

e _____ × _____ = _____



3 a How many groups? _____

b How many pumpkins in each group? _____

c How many pumpkins altogether? _____

d _____ + _____ + _____ + _____ + _____ + _____ = _____

e $6 \times$ _____ = _____

4 Use different colours to match.

a	$3 + 3 + 3$	five fours	1×10	20
b	$4 + 4 + 4 + 4 + 4$	one bundle of 10	3×3	12
c	$6 + 6$	3 groups of 3	5×4	10
d	10	six times 8	2×6	9
e	$8 + 8 + 8 + 8 + 8 + 8$	2 lots of 6	6×8	48



Self Assessment

ACMNA057 Number and place value • Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies.	Score	Basic	Sound	High

Multiplication

5 Draw a diagram and give the answer.

a 4 rows of 5

b 6 rows of 3

c 5 rows of 9

6 a 8
 × 5

b 6
 × 3

c 4
 × 8



7 a 10
 × 10

b 9
 × 9

c 7
 × 7

8 Complete:

a Nan sent 8 boxes of apples to Market each day for 6 days. How many boxes did she send altogether? Working
 What?
 How?
 Answer: _____

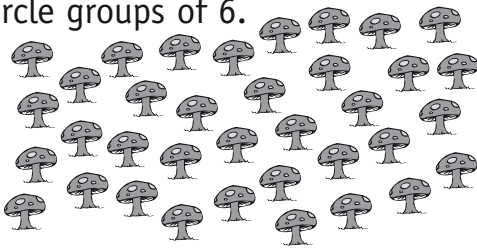
b We had 12 visitors every day for 3 days. How many visitors did we have altogether? Working
 What?
 How?
 Answer: _____
 Explain how you worked out your answer.

Self Assessment 😊😊😊

<p>ACMNA057 Number and place value • Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies.</p>	<p>Score</p>	<p>Basic</p>	<p>Sound</p>	<p>High</p>
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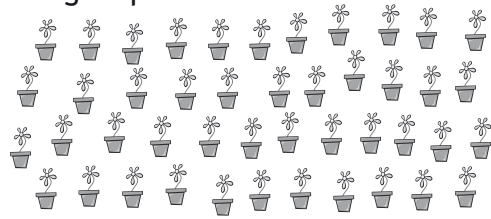
Division

1 Circle groups of 6.



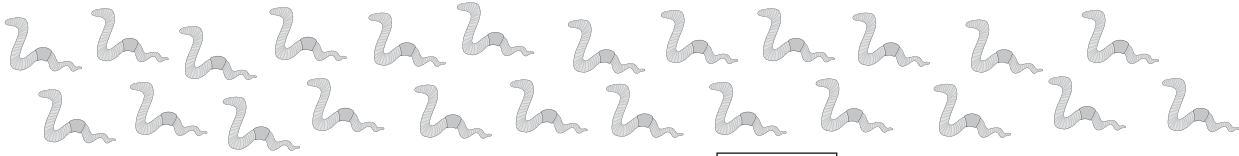
- a How many mushrooms? _____
- b How many groups? _____
- c How many in each group? _____

2 Circle groups of 5.



- a How many flower pots? _____
- b How many groups? _____
- c How many in each group? _____

3



- a How many groups of 6 worms? _____
- b How many groups of 3 worms? _____
- c How many groups of 8 worms? _____
- d How many groups of 4 worms? _____

groups

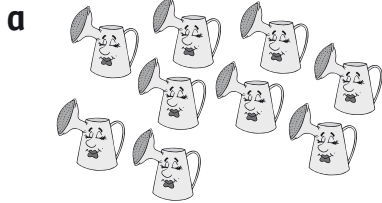
groups

groups

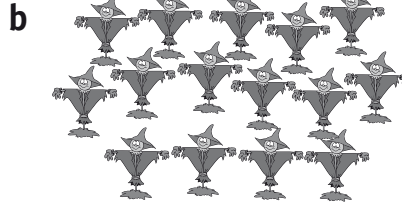
groups

4 What are fair shares? _____

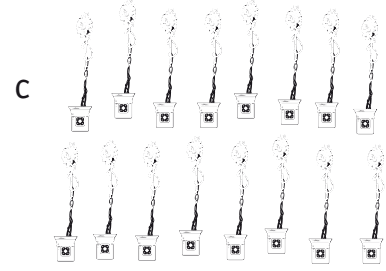
5 Circle to make fair shares. How many in each share?



3 shares _____



5 shares _____



4 shares _____

6 Use skip counting or diagrams.

- a Share 25 apples into 5 bags. How many in each bag? _____
- b Share 48 sweets into 6 boxes. How many in each box? _____
- c Put 45 pencils into 5 cups. How many in each cup? _____
- d Place 27 10c coins into 3 piles. How many in each pile? _____

Self Assessment 😊 😊 😊

<p>ACMNA056 Number and place value • Recall multiplication facts of two, three, five and ten and related division facts.</p>	<p>Score</p>	<p>Basic</p>	<p>Sound</p>	<p>High</p>
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Fractions

1 How many in 1 whole?

- a halves _____ b quarters _____ c fifths _____ d tenths _____

2 Joe has 12 oranges. How many make:

- a $\frac{1}{2}$? = _____ b $\frac{1}{4}$? = _____ c $\frac{1}{3}$? = _____ d $\frac{3}{4}$? = _____

3 Match using different colours.

$\frac{4}{10}$	2 out of 3 equal parts	four-tenths
$\frac{1}{4}$	4 out of 10 equal parts	two-eighths
$\frac{2}{3}$	2 out of 8 equal parts	one-quarter
$\frac{2}{8}$	1 out of 4 equal parts	two-thirds



4 a Mary ate $\frac{1}{5}$ of her 10 grapes. How many did she eat? _____

b Tim gave away $\frac{1}{3}$ of his 9 marbles. How many did he give away? _____

c Ann broke $\frac{1}{4}$ of her 16 pencils. How many were broken? _____

5 Circle the larger fraction.

- a $\frac{1}{2}$, $\frac{1}{4}$ b $\frac{1}{8}$, $\frac{1}{4}$ c $\frac{1}{2}$, $\frac{8}{10}$ d $\frac{3}{6}$, $\frac{1}{4}$ e $\frac{1}{2}$, $\frac{2}{5}$

6 True or false?

- a $\frac{4}{8} = \frac{1}{2}$ _____ b $\frac{1}{3} < \frac{1}{6}$ _____ c $\frac{1}{5} > \frac{1}{10}$ _____ d $\frac{1}{5} = \frac{2}{10}$ _____ e $\frac{3}{4} = \frac{3}{8}$ _____



7 Mark and colour the given fraction:

- a Which is the larger, $\frac{3}{4}$ or $\frac{6}{10}$? _____
- b Which is smallest of all? _____
- c Which is closest to 1? _____
- d Which is smaller, $\frac{7}{8}$ or $\frac{3}{4}$? _____

$\frac{3}{4}$	<input type="text"/>
$\frac{2}{5}$	<input type="text"/>
$\frac{6}{10}$	<input type="text"/>
$\frac{7}{8}$	<input type="text"/>

Self Assessment 😊 😊 😊

ACMNA058 Fractions and decimals • Model and represent unit fractions including $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{5}$ and their multiples to a complete whole.	Score	Basic	Sound	High
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Number Patterns

1 Write the pattern of 9s from 0 to 100.

2 a Write the ones digit of each multiple of 9 in order.

b What do you notice? _____

3 Write the multiples of 4 to 50. _____

4 Write the multiples of 8 to 80. _____



5 Write the missing term. Write the reason for your answer.

a 27, 36, _____, 54, 63, 72

Reason _____

b \$2.00, \$1.95, \$1.90, _____, \$1.80, \$1.75

Reason _____

c 15, 21, 27, _____, 39, 45

Reason _____

6 Look at Q3 and 4 above. Complete:

a The multiples of 8 are _____ the multiples of 4.

b The multiples of 4 are _____ the multiples of 8.

c This is because 4 is _____ of 8 and 8 is _____ 4.



7 Complete this table.

Order of term	1	2	3	4	
Term	3	7			19

8 Circle the term in each row that does not belong. Give a reason.

a 12, 15, 18, 21, 25, 27, 30 _____

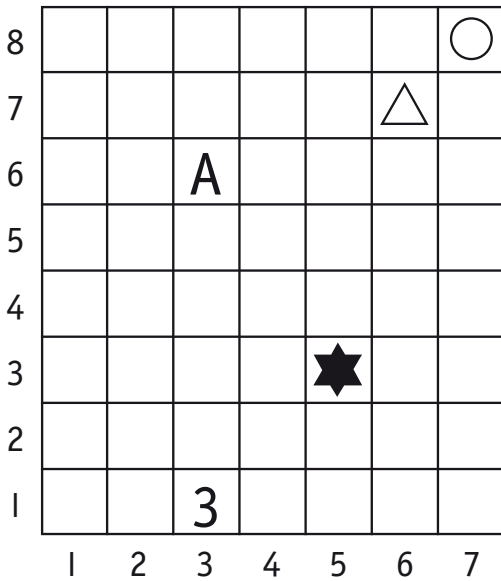
b 64, 60, 55, 52, 48 _____

c 90, 180, 270, 350, 450 _____

Self Assessment 😊 😊 😊

ACMNA060 Patterns and algebra • Describe, continue, and create number patterns resulting from performing addition or subtraction.	Score	Basic	Sound	High
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Position



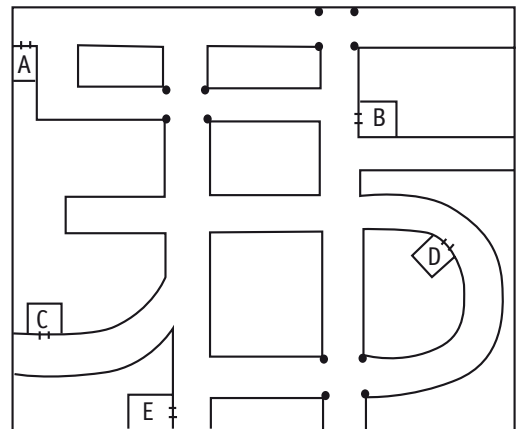
- 1
 - a Colour the square at row 4 column 5 red.
 - b Put a cross 2 squares under the star.
 - c Place a dot directly above A.
 - d Colour the last square in row 5 green.
 - e Draw a sun 3 squares to the left of the star.

2 Write the position of:

- a the star. _____
- b A. _____
- c the triangle. _____
- d the circle. _____



- 3
 - a Use red to draw the shortest path from A to B.
 - b Use green to draw the shortest path from C to D.
 - c Use blue to draw the shortest path from B to E.
 - d I am at E. I leave my house, turn left, walk to the end of the street, turn left again and cross one more street to visit my friend. Who is my friend? _____



4 Where are we going?

_____ _____ _____ _____ _____
a **b** **c** **d** **e** **f** **g** **h** **i** **j** **k**

- | | | | |
|-----------------------|----------------|----------|----------------|
| a and c | column 2 row 6 | g | column 3 row 3 |
| b | column 4 row 4 | h | column 5 row 1 |
| d | column 3 row 2 | j | column 2 row 4 |
| e | column 5 row 6 | k | column 4 row 3 |
| f and i | column 1 row 5 | | |

6	N	T	J	F	E
5	C	H	B	U	P
4	Q	U	Y	O	M
3	G	V	I	S	D
2	W	Z	H	K	X
1	A	C	T	L	R
	1	2	3	4	5

Self Assessment 😊 😊 😊

ACMMG065 Location and transformation • Create and interpret simple grid maps to show position and pathways.	Score	Basic	Sound	High
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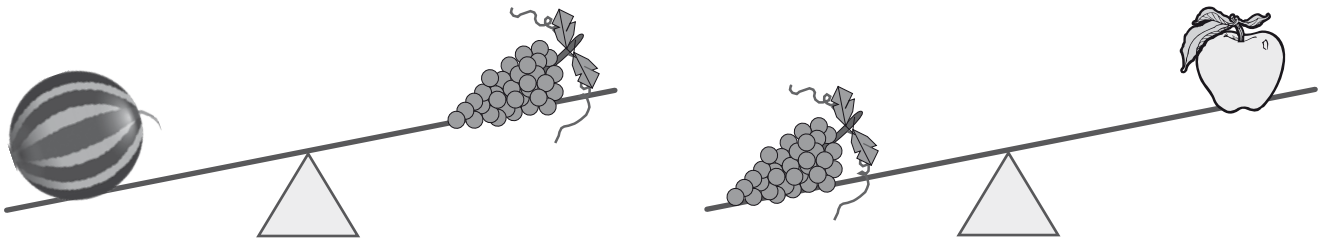
Mass

1 Tick the correct column.

	Object	Less than 1 kg	About 1 kg	More than 1 kg
a	a dog			
b	a library book			
c	a carton of milk			
d	a pair of socks			
e	5 apples			
f	a tennis ball			

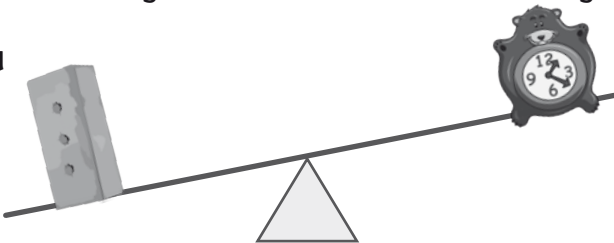


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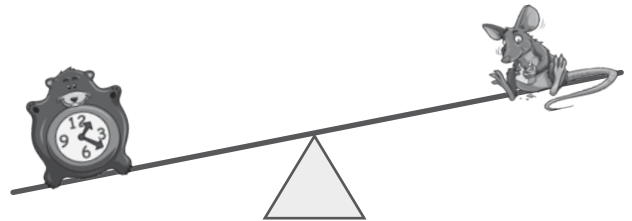


Which weighs most? Circle: melon grapes apple.

3 a



b



Tick the true sentence:

brick = 2 kg, clock = 1 kg

clock = 500 g, mouse = 650 g

brick = 2 kg, clock = 3 kg

clock = 500 g, mouse = 280 g



4 Order 1 = lightest to 4 = heaviest.



1 _____ 2 _____ 3 _____ 4 _____

Self Assessment



ACMMG061 Using units of measurement • Measure, order and compare objects using familiar metric units of length, mass and capacity.

Score

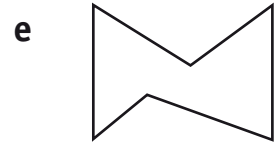
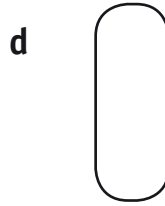
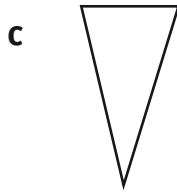
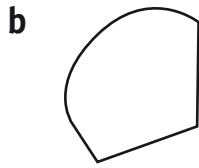
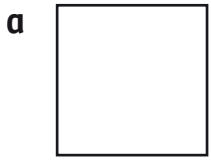
Basic

Sound

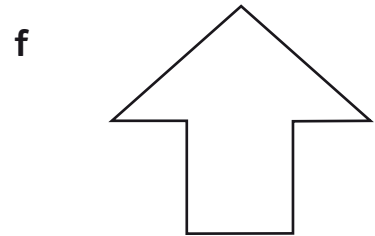
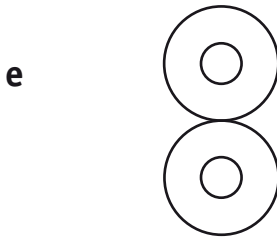
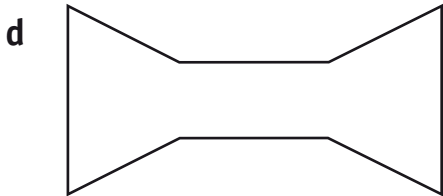
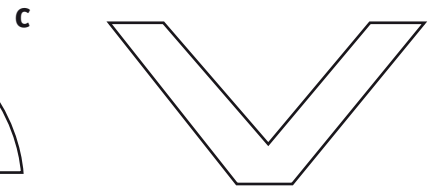
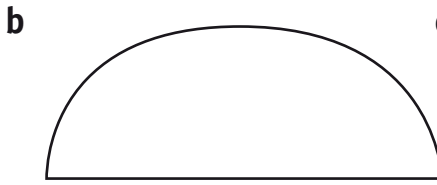
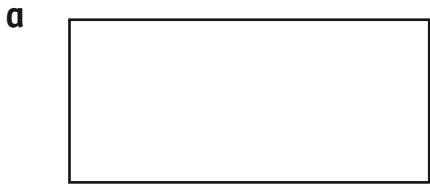
High

2D Symmetry

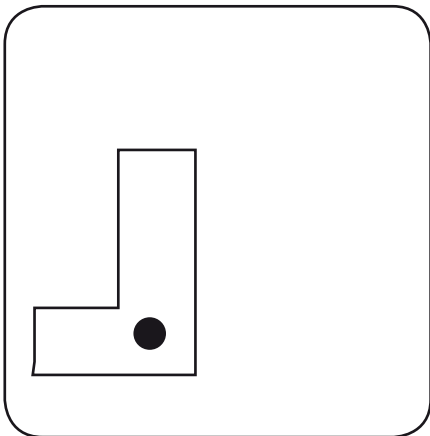
1 Circle the shapes that are symmetrical.



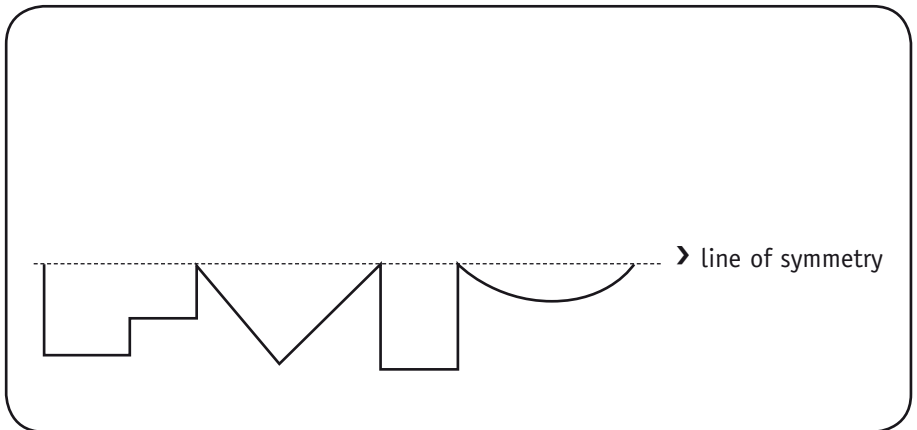
2 Draw lines of symmetry.



3 a Turn the shape.



b Complete to make a symmetrical drawing.



Self Assessment



ACMMG066 Location and transformation • Identify symmetry in the environment.

Score

Basic

Sound

High

Time

1 Arrange these actions in order of longest time to shortest time.

a drive to another town, fly across Australia, ride a bike to your friend's house

b you run 100 m, you skip 100 m, you bunny hop 100 m

2 Write three things that take about an hour to do.

3 Write three things that take about five minutes to do.

4 How many hours from:

a 7 o'clock until 11 o'clock? _____

b 12 o'clock until 4 o'clock? _____

c 5:30 until 9:30? _____

d 10:30 until 2:30? _____

e 9 o'clock until 1 o'clock? _____

f 3:30 until 1:30? _____



5 How many minutes from:

a 3:30 until 3:55? _____

b 12:15 until 12:40? _____

c 9:50 until 10:10? _____

d 2:23 until 2:34? _____

e 10:55 until 11:07? _____

f 11:09 until 12:00? _____

6 a How many times does the hour hand go around the clock-face in a day? _____

b How many minutes go by while the minute hand goes from 1 to 2? _____

c How many hours go by while the hour hand goes from 1 to 2? _____

d The minute hand takes _____ minutes to move between 3 and 7 on the clock.

e The hour hand takes _____ to move between 3 and 7 on the clock.

7 Write digital time for:

a a quarter to 6.

⋮
⋮

b a quarter past 12.

⋮
⋮

c 20 to 4.

⋮
⋮

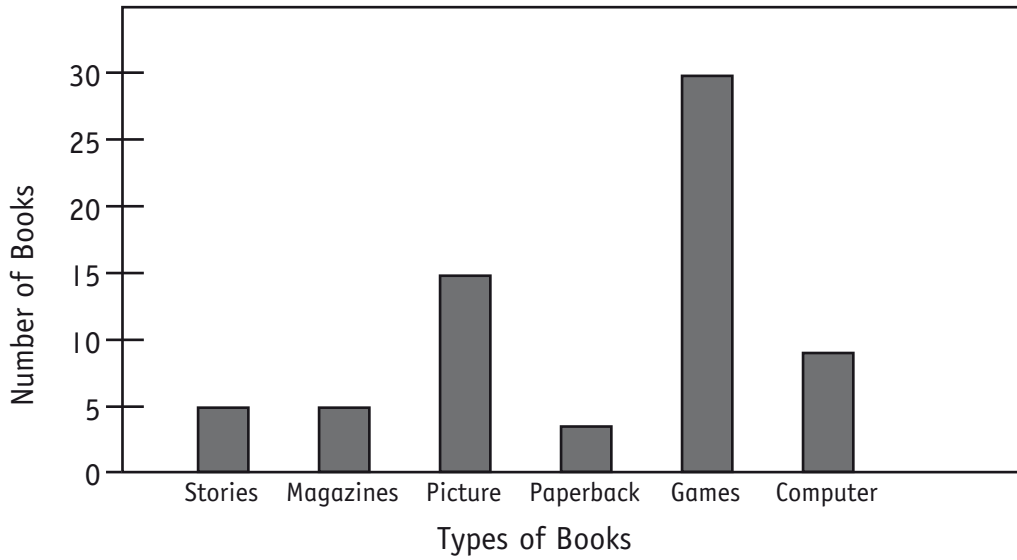
Self Assessment 😊 😊 😊

<p>ACMMG062 Using units of measurement • Telling time to the minute and investigate the relationship between units of time.</p>	Score	Basic	Sound	High
--	-------	-------	-------	------

Data

I

Books Borrowed from the Library



- a How many picture books were borrowed? _____
- b Which type of book was most popular? _____
- c Which type of book was least popular? _____
- d How many books were borrowed altogether? _____
- e The library made a mistake. 20 computer books were borrowed. Change the graph to show this.
- f The library also forgot to show that 25 nonfiction books were borrowed. Add this column to the graph. Don't forget the label.

2 Study this Bus Roll. Answer the questions on the next page.

Name	Year	Phone Number	Suburb
Macey, Jessie	3	0415 687 322	Grenville
Mandin, Mel	3	0418 666 290	Grenville
Massey, Kevin	4	0415 388 922	Pulsar
Massey, Kristy	4	0415 388 922	Pulsar
Menard, Diane	4	0416 828 654	Grenville
Messine, Jo	5	0444 123 987	Shrivey

Self Assessment



ACMSP069 Data representation and interpretation • Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies.

Score

Basic

Sound

High

Data

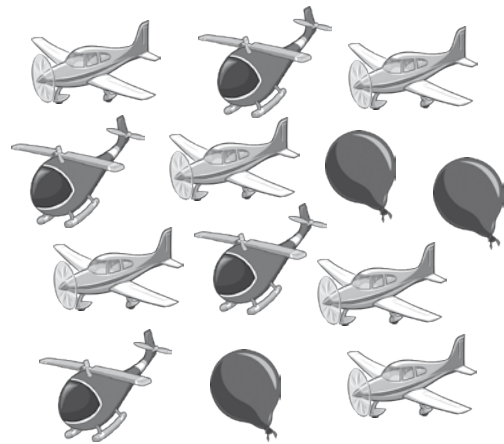
See previous page for the Bus Roll.

- a Number of students in Year 3 _____, 4 _____, 5 _____
- b Students from Grenville _____ Pulsar _____ Shrivey _____
- c True/False. The students' names are arranged alphabetically. _____
- d True/False. All the Grenville students are in Year 3. _____
- e What suburb does Kristy Massey come from? _____
- f Whose phone number is 0418 666 290? _____



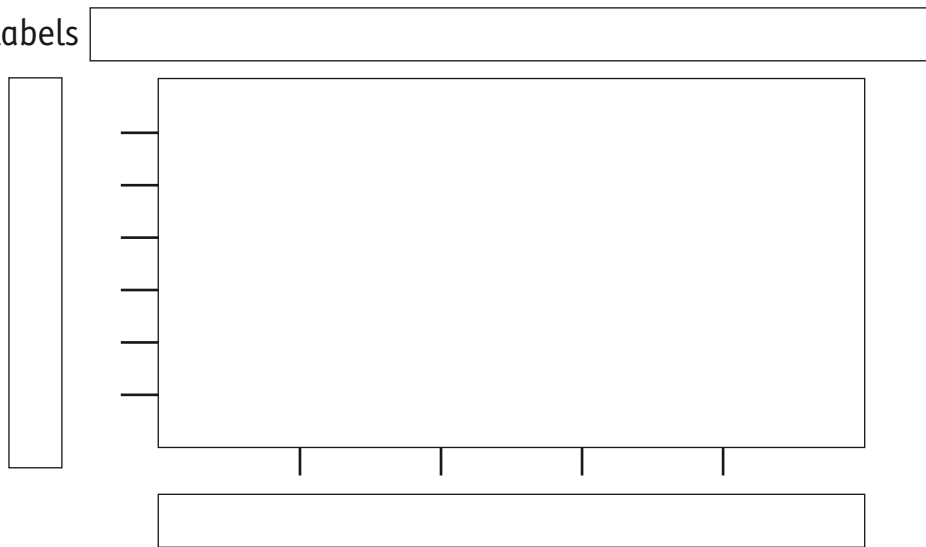
3 Tally these aircraft seen at the Airshow. Add a title.

Type of aircraft	Tally	Total



4 Make a column graph to show this information.

Remember all the labels



5 Who would use the information in this graph? _____

6 What does this graph tell them? _____

Self Assessment 😊 😊 😊

ACMSP069 Data representation and interpretation • Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies.	Score	Basic	Sound	High
--	-------	-------	-------	------

Four-digit numbers

1 Write these numbers in ascending order of size.

- a 2456, 2546, 2406, 2654 _____
- b 1025, 1205, 1520, 1502 _____
- c 6000, 6600, 6060, 6006 _____

2 Use < or >.

- a 456 _____ 465 b 3601 _____ 3600 c 7959 _____ 790

3 Round these numbers to the nearest thousand.

- a 690 _____ b 1765 _____ c 3080 _____



4 Read these numbers. 378, 322, 356, 341, 395, 367

Write the numbers that:

- a round to 300 _____
- b rounds to 400 _____

5 Write the number 10 less than:

- a 345 _____ b 6790 _____ c 1008 _____

6 Write the number 100 less than:

- a 2480 _____ b 3508 _____ c 798 _____

7 Write the number 1000 more than:

- a 3579 _____ b 2006 _____ c 4057 _____



8 Write the value of the 9 in:

- a 9046 _____ b 8976 _____ c 3009 _____

9 In the number 4600, how many:

- a hundreds? _____ b tens? _____

Self Assessment 😊 😊 😊

ACMNA052 Number and place value • Recognise, model represent and order numbers to at least 10 000.	Score	Basic	Sound	High
--	-------	-------	-------	------

Multiplication

1 Complete these rows of multiples:

- a of 7 – 7 14 21 _____
- b of 8 – 8 16 _____ 72
- c of 9 – 9 18 _____ 45 _____

2 a 8 b 5 c 8 d 9 e 7 f 10

$\times 4$ $\times 9$ $\times 6$ $\times 0$ $\times 7$ $\times 3$

3 Match by colouring.

a	4 groups of 6	9×5	$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$	24
b	7 lots of 8	3×7	$9 + 9 + 9 + 9 + 9 + 9$	54
c	9 rows of 5	8×4	$6 + 6 + 6 + 6$	21
d	3 groups of 7	4×6	$8 + 8 + 8 + 8 + 8 + 8 + 8$	56
e	6 groups of 9	6×9	$4 + 4 + 4 + 4 + 4 + 4 + 4 + 4$	32
f	8 lots of 4	7×8	$7 + 7 + 7$	45

4 a Bananas are in bunches of 7.
How many bananas in 5 bunches?

b There are 3 children in each group.
How many children in 8 groups?

_____ \times _____ = _____ bananas

_____ \times _____ = _____ children

5 Write a question.

_____ \times _____ = _____

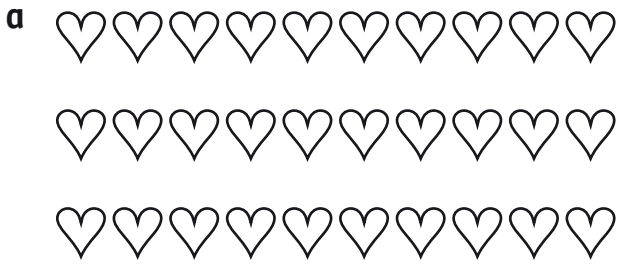
Answer 36 spots

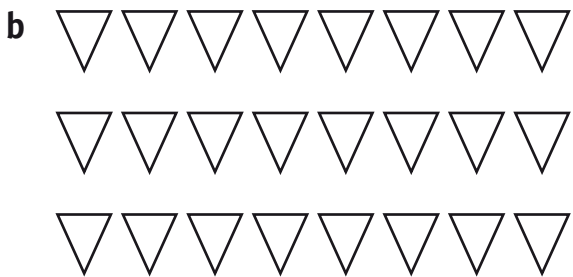
Self Assessment 

ACMNA057 Number and place value • Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies.	Score	Basic	Sound	High
---	-------	-------	-------	------

Multiplication

6 Write as many multiplication facts as you can for these diagrams.





7 Find the product of:

- a** 7 and 0. _____ **b** 2 and 8. _____ **c** 4 and 10. _____ **d** 5 and 9. _____
e 3 and 6. _____ **f** 6 and 5. _____ **g** 7 and 9. _____ **h** 1 and 3. _____



8 Farmer Jim has 3 yards with 8 chickens in each and 5 yards with 4 geese in each.
 True/false. Farmer Jim has more geese than chickens. _____

9 I counted 8 windows on each floor of the new 6 storey CSI building and 6 windows on each floor of the 3 storey JJ building.
 How many windows altogether? _____

10 Mr Glinn pays \$4 in tolls to cross the bridge and \$5 in tolls to drive on the freeway.
 How much does he pay in tolls, one way, in a 5 day working week? _____

Self Assessment



ACMNA056 Number and place value • Recall multiplication facts of two, three, five and ten and related division facts.	Score	Basic	Sound	High
---	-------	-------	-------	------

Division

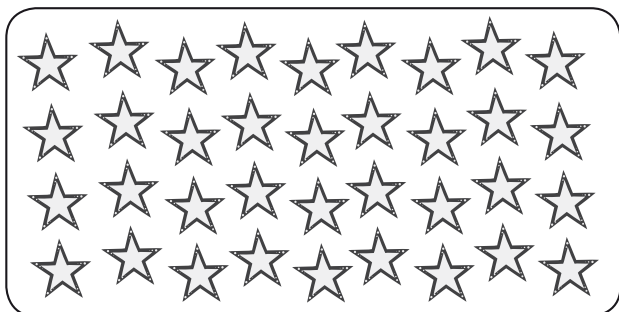
1 If one sweet costs 7c how many could you buy for:

- a 49c? _____ b 14c? _____ c 28c? _____ d 63c? _____ e 35c? _____

2 Drinks cost \$2. How many could you buy for:

- a \$20? _____ b \$8? _____ c \$18? _____ d \$6? _____ e \$14? _____

3 Use these stars to help you divide.



- a $36 \div 4 =$ _____
 b $36 \div 6 =$ _____
 c $36 \div 9 =$ _____
 d $36 \div 1 =$ _____
 e $36 \div 2 =$ _____

4 Complete.

- a $6 \times 9 =$ _____ b $4 \times 7 =$ _____ c $9 \times 3 =$ _____ d $7 \times 6 =$ _____
 $54 \div 6 =$ _____ $28 \div 4 =$ _____ $27 \div 3 =$ _____ $42 \div 7 =$ _____
 $54 \div 9 =$ _____ $28 \div 7 =$ _____ $27 \div 9 =$ _____ $42 \div 6 =$ _____

- 5** a $6 \div 6 =$ _____ b $45 \div 5 =$ _____ c $63 \div 9 =$ _____ d $64 \div 8 =$ _____
 e $16 \div 4 =$ _____ f $56 \div 8 =$ _____ g $32 \div 4 =$ _____ h $25 \div 5 =$ _____

6 Use these keys to help.



How many keys each if they are shared equality between:

- a 5 children _____
 b 4 children _____
 b 10 children _____

- 7** a $16 \div 4 =$ _____ b $21 \div 3 =$ _____ c $25 \div 5 =$ _____
 d $32 \div 8 =$ _____ e $48 \div 6 =$ _____ f $35 \div 5 =$ _____

Self Assessment



<p>ACMNA056 Number and place value • Recall multiplication facts of two, three, five and ten and related division facts.</p>	<p>Score</p>	<p>Basic</p>	<p>Sound</p>	<p>High</p>
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Fractions

1 Complete equivalent fractions.

a $\frac{1}{2} = \frac{\square}{8}$

b $\frac{3}{4} = \frac{\square}{8}$

c $1 = \frac{\square}{8}$

d $\frac{1}{5} = \frac{\square}{10}$

e $\frac{8}{10} = \frac{\square}{5}$

f $\frac{\square}{3} = \frac{4}{6}$

2 How much more to make 1?

a $\frac{1}{5}$ _____

b $\frac{1}{3}$ _____

c $\frac{7}{10}$ _____

3 Place these fractions in order on the number line. $\frac{1}{5}, \frac{1}{2}, \frac{7}{10}, \frac{3}{5}, \frac{1}{10}$,



4 True or false?

a $\frac{1}{2} = \frac{6}{10}$ _____

b $\frac{2}{5} = \frac{4}{10}$ _____

c $\frac{1}{4} = \frac{2}{8}$ _____

d $\frac{1}{2} > \frac{3}{5}$ _____

e $\frac{3}{4} < \frac{3}{8}$ _____

f $\frac{7}{10} > 1$ _____

5 Colour the correct fraction:

a $\frac{1}{2}$

b $\frac{1}{3}$

c $\frac{1}{4}$

6 True or false?

a $\frac{1}{2} < \frac{4}{10}$ _____

b $\frac{3}{10} = \frac{2}{5}$ _____

c $\frac{3}{5} = \frac{6}{10}$ _____

7 Complete these diagrams to show that:

a $\frac{2}{3} < \frac{5}{6}$

b $\frac{9}{10} > \frac{3}{4}$

Self Assessment

ACMNA058 Fractions and decimals • Model and represent unit fractions including $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{5}$ and their multiples to a complete whole.	Score	Basic	Sound	High
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Length and Area

1 Measure these lines in centimetres.



A = _____ B = _____



C = _____ D = _____

2 Measure these lines in millimetres.

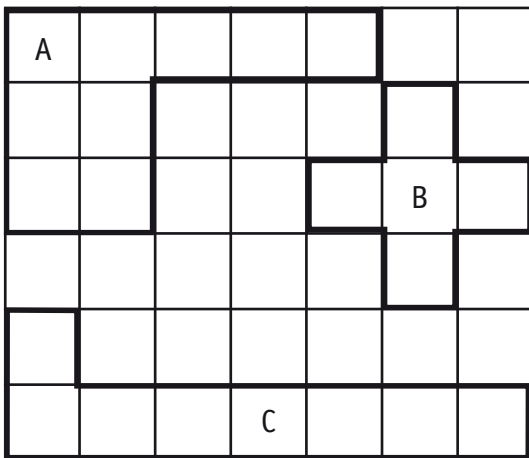


A = _____ B = _____



C = _____ D = _____

3 Write the area of each shape in squares.



Area A = _____

Area B = _____

Area C = _____

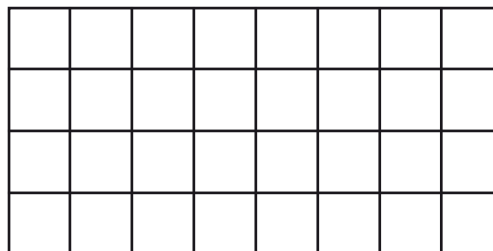


4 Place these measurements in order from shortest to longest.

a 5 cm, 45 mm, 4 cm, 52 mm _____

b 2 m, 220 cm, 1 m 80 cm, 2 m 15 cm _____

5 Handy Harry is tiling his laundry with large tiles. How many tiles cover the whole floor? _____

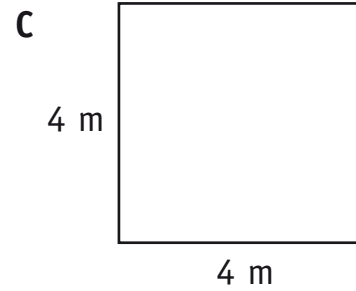
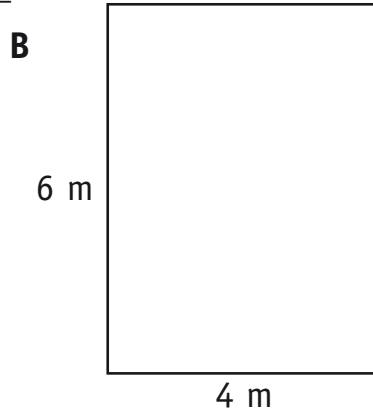
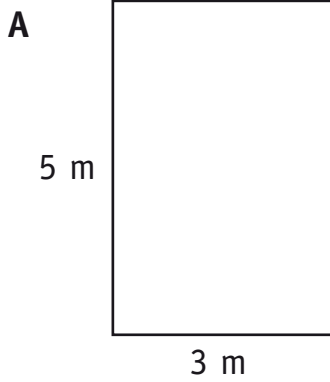


Self Assessment 😊 😊 😊

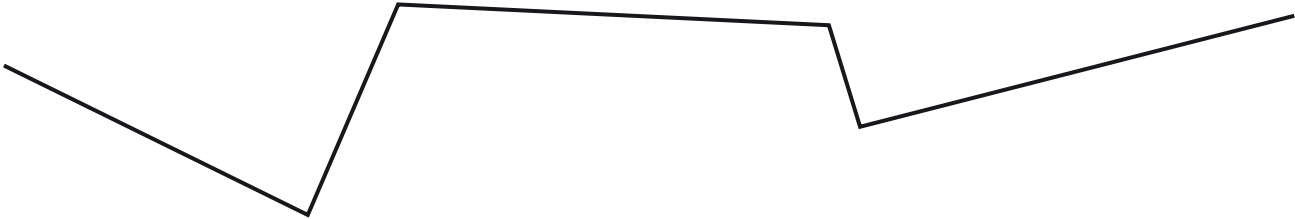
ACMMG061 Using units of measurement • Measure, order and compare objects using familiar metric units of length, mass and capacity.	Score	Basic	Sound	High
--	-------	-------	-------	------

Length and Area

6 Harry has bought another 24 tiles. Which one of these spaces will he tile with those tiles? _____

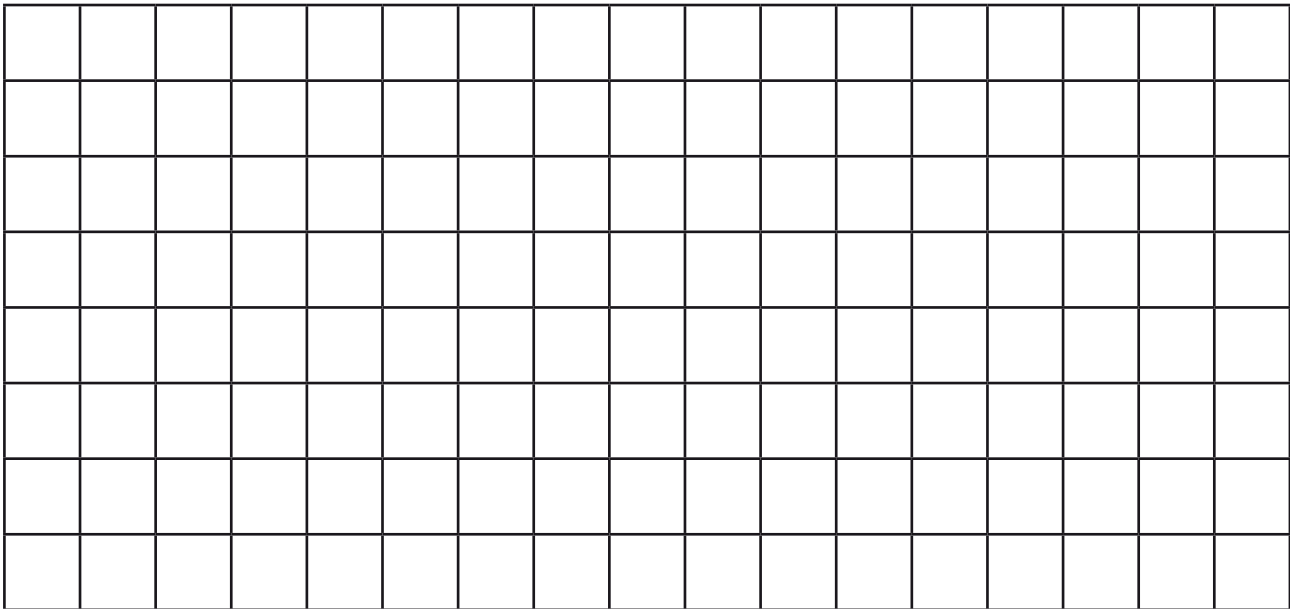


7 Find the section of these lines that is 4 cm 5 mm long. Mark it with a cross.



8 a On this squared paper, draw a 4 sided shape that covers 30 cm².

b Measure the distance around the shape. _____



Self Assessment 😊 😊 😊

ACMMG061 Using units of measurement • Measure, order and compare objects using familiar metric units of length, mass and capacity.	Score	Basic	Sound	High
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Number Patterns

1 Find the rule for each pattern and write the rule for these number machines.

	In	Out	Rule
a	6	9, 12, 15	_____
b	8	12, 16, 20	_____
c	29	20, 11, 2	_____
d	11	21, 31, 41	_____
e	13	11, 9, 7	_____

2 True (T) or false (F)?

- | | | |
|-----------------------------------|-----------------------------|---------------------------------------|
| a $7 \times 3 = 3 \times 7$ _____ | b $9 + 6 = 6 + 9$ _____ | c $8 \div 4 = 4 \div 8$ _____ |
| d $7 \times 2 = 7 + 2$ _____ | e $11 - 3 = 3 - 11 =$ _____ | f $12 \times 11 = 11 \times 12$ _____ |
| g $3 + 7 = 3 \times 7$ _____ | h $5 + 8 = 8 + 5$ _____ | i $20 - 10 = 20 \div 10$ _____ |



3 True (T) or false (F)?

- a Add an odd number to an odd number and the answer is even. _____
Example: _____
- b Add an odd number to an even number and the answer is even. _____
Example: _____
- c Take an even number from an even number and the answer is even. _____
Example: _____



4 What will the 10th term be in each pattern?

- | | |
|------------------------|------------------------|
| a 3, 7, 11, 15 _____ | b 5, 15, 25, 35 _____ |
| c 1, 2, 4, 7, 11 _____ | d 85, 76, 67, 58 _____ |

5 This is a pattern made with sticks.



- a Draw the next term.
b Complete the table.

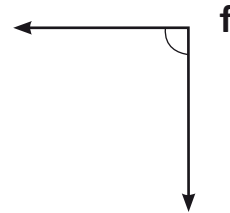
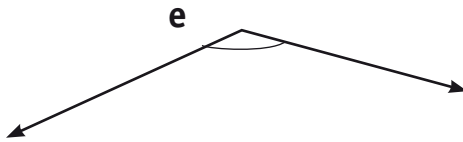
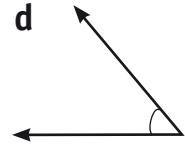
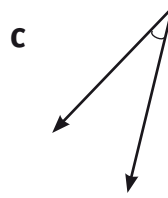
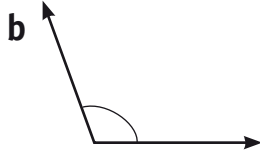
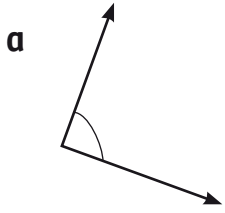
Number of shapes	1	2	3	4	5	6
Number of sticks	4					

Self Assessment 

ACMNA060 Patterns and algebra • Describe, continue, and create number patterns.	Score	Basic	Sound	High
---	-------	-------	-------	------

Angles

1 Colour the right angles blue, the acute angles green and the obtuse angles brown.



2 Draw:

a right angle.	an acute angle.	an obtuse angle.

3 a Name 2 places where we see right angles.

b Name 2 places where we see acute angles.



4 Explain how an angle is formed.

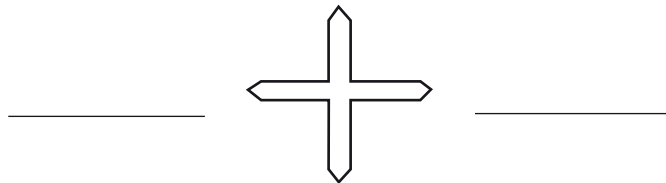
Self Assessment 😊😊😊

ACMMG064 Geometric reasoning • Identify angles as measures of turn and compare angle sizes in everyday situations.	Score	Basic	Sound	High
--	-------	-------	-------	------

Position

1 Write the compass points.

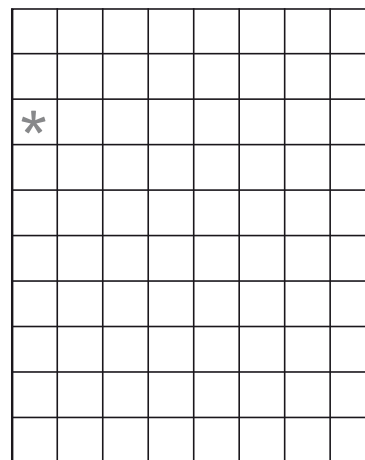
N _____











2 Start at *. Follow the directions to draw the path.

- a 1 right b 1 up c 4 right
- d 2 down e 1 right f 3 down
- g 5 left h 2 down i 5 right

What number have you made? _____



3

3			
2			
1			
	A	B	C

What is at:

- a D3? _____
- b A2? _____
- c B1? _____
- d C2? _____

Where is:

- e the camel? _____ f the bat? _____
- g Name the empty squares. _____
- h Write two questions about the grid.

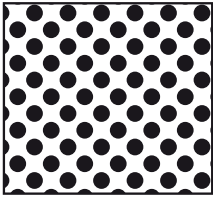
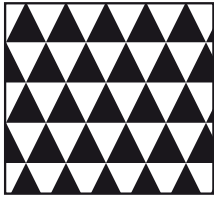
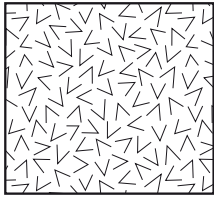
- _____
- _____

Self Assessment

ACMMG065 Location and transformation • Create and interpret simple grid maps to show position and pathways.	Score	Basic	Sound	High
---	-------	-------	-------	------

Chance

1

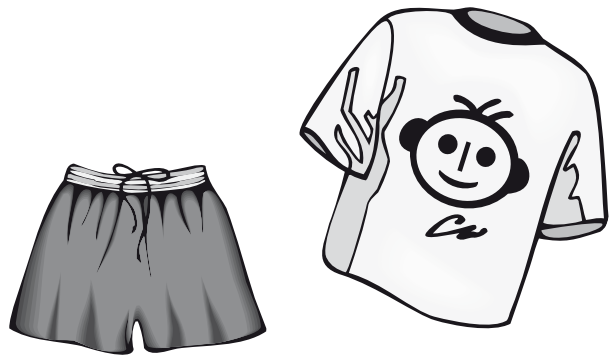




Starting at ● draw 5 different ways to pass the three blocks and get back to ●.
 Use a different colour for each path.
 Use an arrow to show the direction of your path.

eg \longrightarrow or \longleftarrow

2 Sam had these shorts and T-shirts.

Shorts	T-shirts
Blue	Red
Green	White
White	Black



List all the combinations Sam could wear.

Shorts	T-shirts

Shorts	T-shirts

3 Choose one term to describe each event.

- a You will see a rainbow today.
- b You will play with friends.
- c You will walk 100 km before dinner.
- d You will drink water today.

impossible, certain, likely, unlikely

Self Assessment 😊 😊 😊

ACMSP067 Chance • Conduct chance experiments, identify and describe possible outcomes and recognise variation in results.	Score	Basic	Sound	High

Problem Solving

Read, Plan, Work, Check

- 1** 25 children met after school to watch the play. 17 were girls.
How many were boys?

What? Number of boys

How? _____

Answer _____

- 2** How many days in 6 weeks?

What? _____

How? _____

Answer _____



- 3** We had 28 friends to make 4 teams.
How many friends were in each team?

What? _____

How? _____

Answer _____

- 4** My website received 23 hits on Saturday,
15 on Sunday and 20 on Monday.

How many hits did it get in three days?

What? _____

How? _____

Answer _____



Self Assessment 😊 😊 😊

<p>ACMNA055 Number and place value • Recall addition and subtraction facts. ACMNA056 Number and place value • Recall multiplication and related division facts.</p>	Score	Basic	Sound	High

Problem Solving

Read, Plan, Work, Check

5 Dad drives 28 kilometres but we are still 17 kilometres from the end of our trip. How many kilometres is our trip?

What? _____

How? _____

Answer _____



6 Grandi, Gramps, Uncle Gogo and Aunty Vi each picked 8 cases of oranges from their orchard. How many cases of oranges did they pick altogether?

What? _____

How? _____

Answer _____



7 Five donkeys share the load of 35 parcels. How many parcels will each donkey have to carry?

What? _____

How? _____

Answer _____

8 There are 16 boys going to soccer and 4 cars to carry them. How many will go in each car?

What? _____

How? _____

Answer _____



Self Assessment

<p>ACMNA055 Number and place value • Recall addition and subtraction facts. ACMNA056 Number and place value • Recall multiplication and related division facts.</p>	<p>Score</p>	<p>Basic</p>	<p>Sound</p>	<p>High</p>
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Problem Solving

Draw a diagram

1 Draw to show:

$18 - 11 = \underline{\quad}$

$21 - 15 = \underline{\quad}$

2 Draw to show:

3 tanks with 5 fish in each

4 cups with 4 pencils in each

3 Use the number line to show:

a $27 + 12 = \underline{\quad}$



b $17 + 16 = \underline{\quad}$



4 Draw to show:

Mrs Bling has 32 stickers for the winning team and each child gets 4 stickers.
How many children were in the winning team? _____

Self Assessment



<p>ACMNA055 Number and place value • Recall addition and subtraction facts. ACMNA056 Number and place value • Recall multiplication and related division facts.</p>	Score	Basic	Sound	High
--	-------	-------	-------	------

Problem Solving

Draw a diagram

5 Draw to show:

4 bags with 3 bottles in each and 2 bags with 4 bottles in each.
How many bottles altogether? _____

6 Vin has 20 cards altogether. Half of them are in his school bag and his mother has 3 in her bag. He is putting the rest in a case.
How many cards will he put in the case? _____

7 Use the number line to show:

Didi has 50 minutes to finish her test. She has been working for 27 minutes.
How much longer does she have to finish her test? _____



8 The bus has 16 passengers, picks up 8 but drops 9. It then picks up 15 and drops 3.
How many people are on the bus now? _____



9 Draw and colour to show:

34 olives. Half are green, 12 are black and I eat all the rest.
How many did I eat? _____

10 Draw:

Self Assessment



ACMNA055 Number and place value • Recall addition and subtraction facts.
ACMNA056 Number and place value • Recall multiplication and related division facts.

Score

Basic

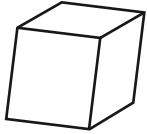
Sound

High

Problem Solving

Trial and error

1 I throw 3 dice and get a total of 14. What could be on the dice? _____



2 Wally has 32 worms in three worm farms. How many could be in each worm farm? _____

A

B

C

3 Joey spends \$60 on footie tickets. An 'A' ticket costs twice as much as a 'B' ticket and he buys one of each.

How much is each ticket?

Answer: A ticket _____ B ticket _____

4 Jass buys chips and a drink for \$9. The chips cost \$1 less than the drink.

How much did they each cost?

Answer: chips _____ drink _____

5 There are 80 children in the Learn to Surf class, 20 more boys than girls.

How many boys are there?

Answer: _____



Self Assessment



<p>ACMNA055 Number and place value • Recall addition and subtraction facts. ACMNA056 Number and place value • Recall multiplication and related division facts.</p>	Score	Basic	Sound	High
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Problem Solving

- 6** In a new game that the Year 3 children invented, goals are 4 points, tries are 5 points and tips are 1 point. The Blasters scored 32 points, scoring more goals than anything else.

How many of each did they score?

Answer: goals _____ tries _____ tips _____

- 7** Raising money for the 'Save our Bees' Charity, Year 3 raised \$160 altogether. 3D raised \$30 more than 3G, who raised \$10 less than 3K.

How much did each class raise?

Answer: 3D _____ 3G _____ 3K _____



- 8** Jerry's Dad is 40 years older than Jerry and their total age is 50.

How old are they?

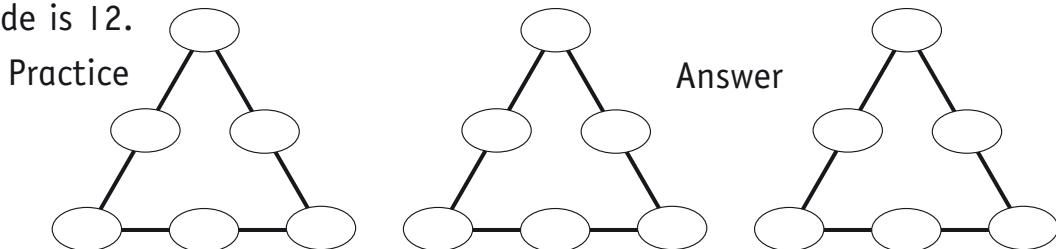
Answer: Dad _____ Jerry _____

- 9** Grandpa makes wooden toys with wheels. He makes tricycles (3 wheels), bicycles (2 wheels) and billy-carts (4 wheels). He has 40 wheels.

How many of each can he make?

Answer: tricycles _____ bicycles _____ billy-carts _____

- 10** Place the numbers 1 – 6 along the sides of this triangle so that the total along each side is 12.



Self Assessment 😊 😊 😊

ACMNA055 Number and place value • Recall addition and subtraction facts.	Score	Basic	Sound	High
ACMNA056 Number and place value • Recall multiplication and related division facts.				

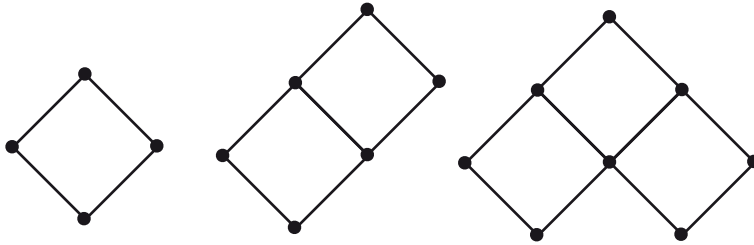
Problem Solving

Look for Patterns

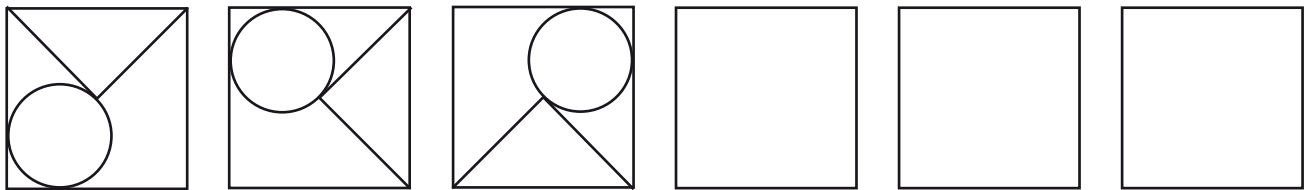
1 When Kelly has used 5  how many  will she have used in her necklace? _____



2 Following this pattern, how many matches does Flip need to make 8 diamonds? _____



3 This pattern is turning. Draw the next three terms in the pattern.



4 These are the phone numbers of a business. 9906 6099, 9906 4099, 9906 8099. They form a pattern. Circle which of these numbers will also belong to this business?

- a 9920 2099 b 9906 5099 c 9930 3039 d 9940 0449



5 Mimi wants to get 5 stickers every day for doing her chores for 5 days, and her brother wants only 1 sticker on the first day, doubling every day until day 5.

Who will get the most stickers?

Answer: _____

Self Assessment



<p>ACMNA060 Patterns and algebra • Describe, continue, and create number patterns resulting from performing addition or subtraction.</p>	<p>Score</p>	<p>Basic</p>	<p>Sound</p>	<p>High</p>
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Problem Solving

Work backwards

1 How far do each of Nona's grandchildren live from her home?

Greta is 4 km further than Bren.

Bren is 5 km closer than Yani.

Seb is 6 km from Nona's.

Yani is 2 km further away than Seb.

Seb _____ Yani _____ Bren _____ Greta _____

2 When Nona gives her grandchildren treats, she uses their ages to decide how much they get. Greta gets 1 less than Seb, who gets 3 less than Yani. Yani gets 6, which is 2 more than Bren. How many treats do they get?

Yani Bren Seb Greta



3 Who was the last person to borrow *Who Sank the Boat?* from the library?

Name

Date borrowed

Cherri borrowed it 3 days before Arnie

Stefan took it 5 days after Cherri

Brendan got it 6 days after Stefan

Will borrowed it 5 days after Arnie

Arnie borrowed it on the 5th August

4 In the long jump at the carnival, Hildy jumped 10 cm less than Pete. Freddy jumped 30 cm more than Gill. Gill jumped 10 cm less than Jodi. Jodi jumped 20 cm less than Pete, who jumped 3 metres 45 cm.

Who tied for first in the long jump? _____



5 What is the mystery number?

I am more than 3000. My ones digit is one more than my thousands digit. I am an even number.

My tens digit is twice my thousands digit.

My hundreds digit, 5 is one less than the tens.

What am I? _____

Self Assessment 😊 😊 😊

ACMNA055 Number and place value • Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation.	Score	Basic	Sound	High
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