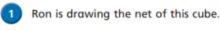
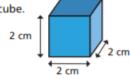
Draw nets of 3D shapes

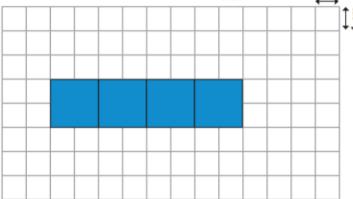






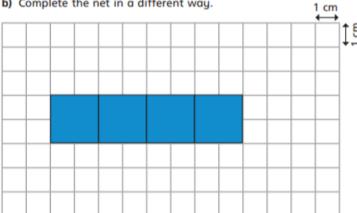
1 cm

a) Here is part of his net.

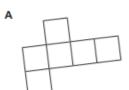


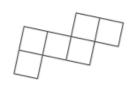
Complete the net.

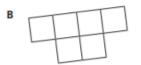






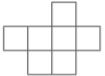








C





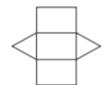






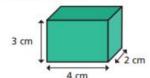


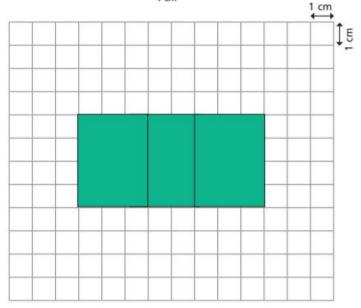


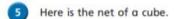




Complete the net of the cuboid.



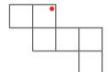




The net is made into a cube.

Which two corners will meet the corner marked with •?

Mark them with a cross.







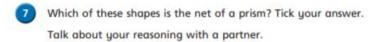




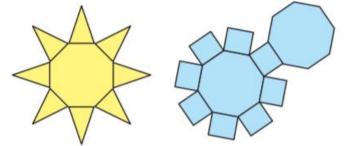














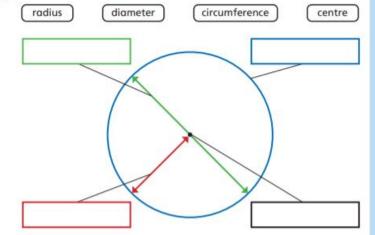




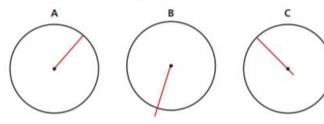
Circles



1 Use the words to label the parts of the circle.



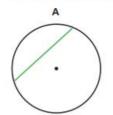
The radius has been marked on each circle.

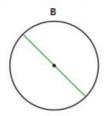


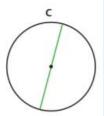
Is the statement true or false? ______ Explain your answer.



3 The diameter has been marked on each circle.







Is the statement true or false? ______ Explain your answer.





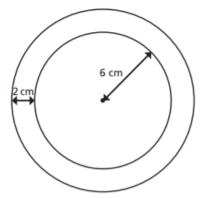
I know the radius of a circle is 12 cm, so the diameter must be 6 cm.

Do you agree with Dexter? _____ Explain your answer.

Complete the table.

Radius	Diameter
4 cm	
	12 m
	9 mm
3.5 km	
	12.6 cm

The two circles have the same centre.



Complete the sentences.

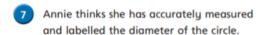
The radius of the inner circle is

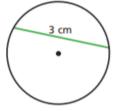
The diameter of the inner circle is

The radius of the cutor sinds is

The radius of the outer circle is

The diameter of the outer circle is





a) Is Annie correct? _____

Explain your answer.

b) Is the diameter greater or less than 3 cm? Explain how you know to a partner.





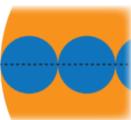
The diameter of a circle is always greater than the radius.

Is Dora correct? _____ Explain your answer.

9 Filip has a large circle with a diameter of 20 cm.

He also has several smaller circles with a radius of 2 cm.

He places the small circles along the diameter of the larger circle as shown.

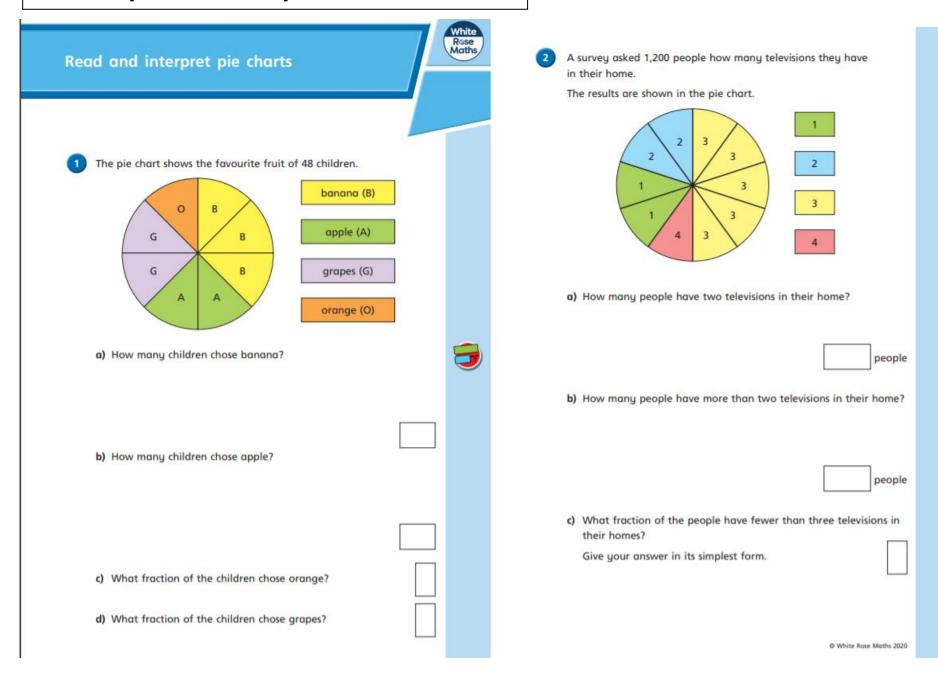


How many small circles will fit across the larger circle?

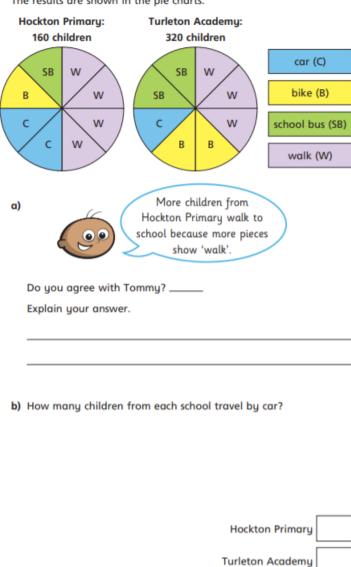






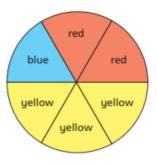


3 Children from two schools were asked how they travel to school.
The results are shown in the pie charts.



A bag contains red, yellow and blue counters.

The pie chart shows the proportion of counters of each colour.



a) There are 30 red counters in the bag.
How many counters are in the bag in total?

	counters
- 1	

b) What is the difference between the number of blue counters and the number of yellow counters?

counter
counteen

c) Complete the sentences.

There are half as many _____ counters

as _____ counters.

There are three times as many _____ counters

as _____ counters.





The mean



Share the counters evenly in order to find the mean number of counters.

The mean number of counters is

2 Find the mean of each set of numbers.





c) 5 2 2 9 7 5 6 5 3 7

3 Huan collects football cards.

The table shows how many he collected over four years.

Year	Number of cards
2016	56
2017	104
2018	81
2019	103

Work out the mean number of cards collected per year.

a) The mean of four numbers is 9

What is the total of the four numbers?

b) Write an example of what the four numbers could be if none of them are 9



Compare answers with a partner.

How many different solutions can you find?



5 The table shows how many pets a number of children have.
One value is missing.

Name	Number of pets
Brett	4
Nijah	0
Rosie	1
Teddy	2
Esther	
Tom	7

The mean number of pets is 3 How many pets does Esther have?

6	Six numbers are written on cards.
	The mean of the numbers is 12
	Fill in the two missing numbers if one is double the other

7	A basketball team played four games.	
	The mean number of points was 45	
	a) How many points did they score in total in the four games?	
	b) After the fifth game, the mean increased to 50 How many points did they score in the fifth game?	
8	A group of children have a mean height of 1.4 m. Another child joins the group. a) What will happen to the mean if the child is 1.5 m tall?	Q
	b) What will happen to the mean if the child is 1.4 m tall?	
	c) What will happen to the mean if the child is 1.3 m tall?	

