

Lesson 2

I am learning to read and interpret pie charts with percentages (2)

All	All of you must complete the first 3 questions
Most	Most of you will complete the fluency and reasoning sections.
Some	Some of you will complete the fluency/reasoning, and problem-solving sections.

Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any point:

<https://www.bbc.co.uk/teach/class-clips-video/math-ks2-pie-and-pie-again-pie-charts/zbbhf4j>

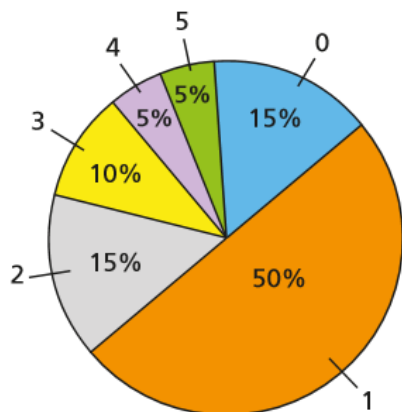
Fluency and reasoning

Key vocabulary: sector, percentage, total	Your answer
<p>150 children voted for their favourite ice cream flavours. Here are their results:</p> <p>How many people voted for Vanilla?</p> <p>How many more people voted for Chocolate than Mint Chocolate Chip?</p> <p>How many people chose Chocolate, Banana and Vanilla altogether?</p>	<p>Vanilla: 15</p> <p>How many more chocolate than mint chocolate chip: 15</p> <p>Chocolate – 45 Mint Choc Chip: 30</p> <p>How many more children chose chocolate than banana and vanilla altogether? 15</p> <p>Banana – 15 Vanilla 15</p>
<p>There are 200 pupils in Key Stage 2 who chose their favourite hobbies.</p> <p>How many pupils chose each hobby?</p>	<p>Walking: 10</p> <p>Reading: 100</p> <p>Cricket: 30</p> <p>Swimming: 20</p> <p>Dancing: 10</p> <p>Football: 30</p>
<p>60 children were asked to choose their favourite vegetable from five options.</p> <p>a) Work out the number of children who chose each vegetable.</p> <p>b) How many more people chose peas than cauliflower? Compare methods with a partner.</p> <p>c) How many more people chose sweetcorn or cabbage than chose carrots?</p>	<p>a) Work out the number of children who chose each vegetable.</p> <p>carrots <input type="text" value="6"/></p> <p>peas <input type="text" value="12"/></p> <p>sweetcorn <input type="text" value="18"/></p> <p>cabbage <input type="text" value="18"/></p> <p>cauliflower <input type="text" value="6"/></p> <p>b) How many more people chose peas than cauliflower? <input type="text" value="6"/></p> <p>Compare methods with a partner.</p> <p>c) How many more people chose sweetcorn or cabbage than chose carrots? <input type="text" value="30"/></p> <p>Compare methods with a partner.</p>

Week 5_Maths_Lesson 2

160 people were asked how many siblings they have.

The results are shown in the pie chart.



How many people had:

0 siblings:

1 sibling:

2 siblings:

3 siblings:

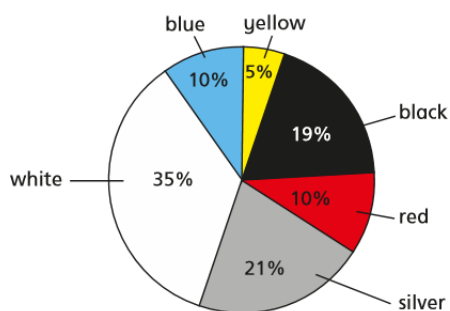
4 siblings:

5 siblings:

Siblings	Frequency
0	24
1	80
2	24
3	16
4	8
5	8

The pie chart shows the colours of cars in a car park on one day.

There were 30 yellow cars.



a) How many cars were in the car park in total?

b) Complete the table.

Colour of car	Frequency
yellow	30
black	
red	
silver	
white	
blue	

600

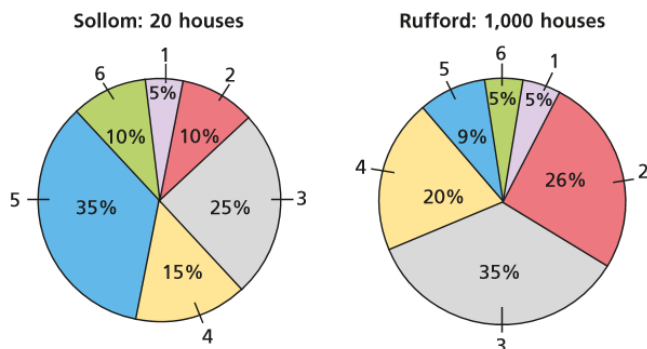
b) Complete the table.

Colour of car	Frequency
yellow	30
black	114
red	60
silver	126
white	210
blue	60

Problem Solving

Key vocabulary: sector, percentage, total

4 The pie charts show the number of bedrooms in the houses in Sollom and Rufford.



a)



There are twice as many six-bedroom houses in Sollom than in Rufford because 10% is double 5%.

Do you agree with Alex?

Explain why.

b) How many more one-bedroom houses are there in Rufford compared to Sollom?

Your answer

Do you agree with Alex? NO

Explain why.

There are a different number of houses. 10% of 20 is 2. 5% of 1000 is 50. 2 is not double 50

b) How many more one-bedroom houses are there in Rufford compared to Sollom?

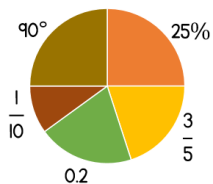
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Extension

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex

True or False? Pie charts with percentages

I can use decimals, percentages, fractions or degrees to describe the sections of a pie chart.



Your answer

True

They all describe parts of the whole circle.