

Lesson 4

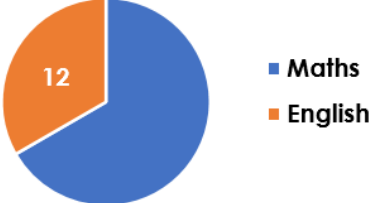
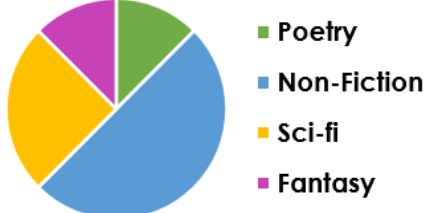
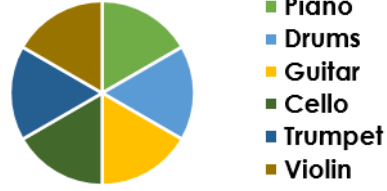
L.0 I am learning to read and interpret pie charts.

All	All of you must complete the fluency section.
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://corbettmathsprimary.com/2018/07/31/reading-pie-charts/>

Fluency

Key vocabulary: pie chart, data, graph, percentage, fraction, whole, part, section	Your answer
<p>2a. The pie chart shows the votes of 36 people. Find the missing value.</p> <p style="text-align: center;"><u>Favourite School Subject</u></p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <ul style="list-style-type: none"> ■ Maths ■ English </div> </div> <p>★ D</p>	
<p>5b. What fraction of the pie chart represents people who chose fantasy?</p> <p style="text-align: center;"><u>Favourite Type of Book</u></p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <ul style="list-style-type: none"> ■ Poetry ■ Non-Fiction ■ Sci-fi ■ Fantasy </div> </div> <p>★ E</p>	
<p>7a. 720 people took part in a survey about playing instruments. How many people does each segment represent?</p> <p style="text-align: center;"><u>Musical Instruments</u></p> <div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <ul style="list-style-type: none"> ■ Piano ■ Drums ■ Guitar ■ Cello ■ Trumpet ■ Violin </div> </div> <p>★ E</p>	

12a. How many people from the 880 surveyed chose each option?

Favourite Pudding



- Cake
- Fruit
- Crumble
- Brownie
- Other



Reasoning

Key vocabulary: pie chart, data, graph, percentage, fraction, whole, part, section

Your answer

3b. Imagine a pie chart with the same proportions as the one below was drawn for a survey of 33 people.

Would the 'Savoury' category have 11 people in it? Convince me.

**Sweet,
Savoury or
Spicy Food
(24 people)**

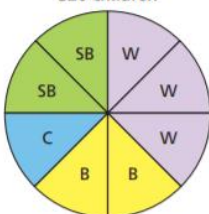
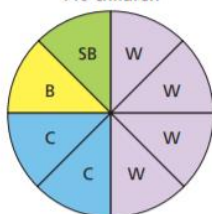


- Sweet
- Savoury
- Spicy

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

Hockton Primary:
140 children

Turleton Academy:
320 children



- car (C)
- bike (B)
- school bus (SB)
- walk (W)

a)



More children from Hockton Primary walk to school because more pieces show 'walk'.

Do you agree with Tommy? _____
Explain your answer.

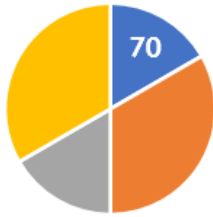
b) How many children from each school travel by car?

4b. Rosie says,



I do not have enough information to work out the total number of votes.

Favourite School Year



- Year 3
- Year 4
- Year 5
- Year 6

Is she correct? Prove it.

Problem Solving

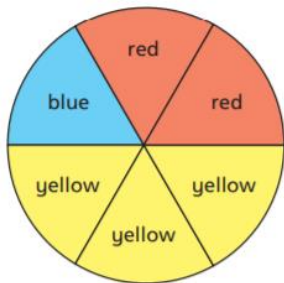
Key vocabulary: pie chart, data, graph, percentage, fraction, whole, part, section

Your answer

5a. Fiona has forgotten what fraction of the pie chart should be given to 'Italian'. Can you work out the fraction from the information below?

Nationality of Hotel Guests	
French	100
Spanish	100
Italian	?
German	50
Total	300 people

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

c) Complete the sentences.

There are half as many _____ counters
as _____ counters.

There are three times as many _____ counters
as _____ counters.

Extension


<p>Key vocabulary: pie chart, data, graph, percentage, fraction, whole, part, section</p>	<p>Your answer</p>
---	--------------------

True or False ? Read and interpret pie charts


The pie charts show playtime activity choices.

	Football		Running
	Reading		Badminton


Year 6
30
children



Year 4
24
children



The same number of children in each class play football.



White Rose Maths