Homework/Extension Step 6: Pie Charts with Percentages

National Curriculum Objectives:

Mathematics Year 6: (6S1) <u>Interpret and construct pie charts and line graphs and use</u> these to solve problems

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Decide if a given statement is true or false, using data from a pie chart. 4 sets of data with multiples of 10%.

Expected Decide if a given statement is true or false, using data from a pie chart. 5 sets of data with multiples of 5%.

Greater Depth Decide if a given statement is true or false, using data from a pie chart. Two pie charts with 5 sets of data each, with any percentage.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify which child has interpreted the data from a pie chart correctly. 5 sets of data with multiples of 10%.

Expected Identify which child has interpreted the data from a pie chart correctly. 5 sets of data with multiples of 5%.

Greater Depth Identify which child has interpreted the data from a pie chart correctly. Two pie charts with 5 sets of data each, with any percentage.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Fill in a missing percentage on a pie chart and use this and use this with other given information to calculate the number of children. 5 sets of data with multiples of 10%. Expected Fill in a missing percentage on a pie chart and use this with other given information to calculate the number of children. 5 sets of data with multiples of 5%. Greater Depth Fill in a missing percentage on each pie chart and use this and use this with other given information to calculate the number of children. Two pie charts with 5 sets of data each, with any percentage.

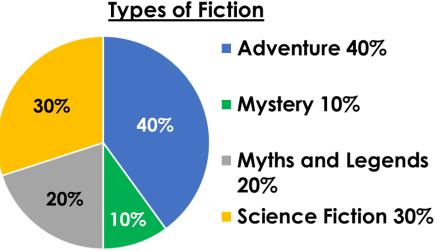
More Year 6 Statistics resources.

Did you like this resource? Don't forget to review it on our website.



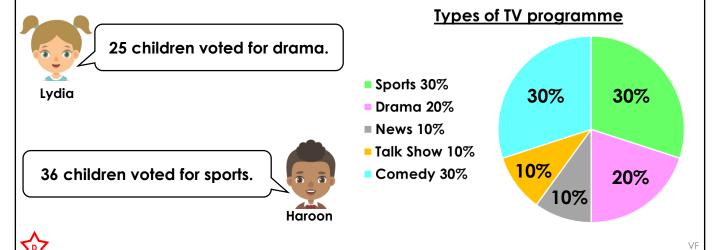
Pie Charts with Percentages

1. True or false? Out of the 200 children that voted, 15 more children liked science fiction than myths and legends.



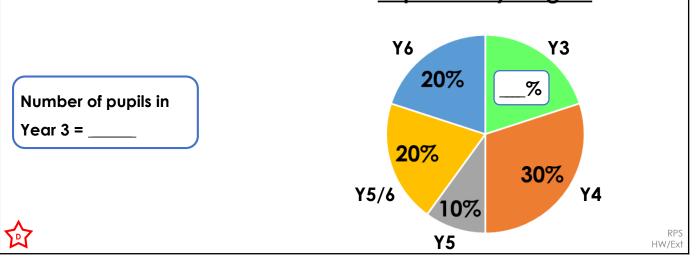
HW/Ext

2. 120 children voted for their favourite type of TV programme. Who is correct?



3. There are 200 pupils in Key Stage 2. Fill in the missing percentage and work out how many children are in Year 3.

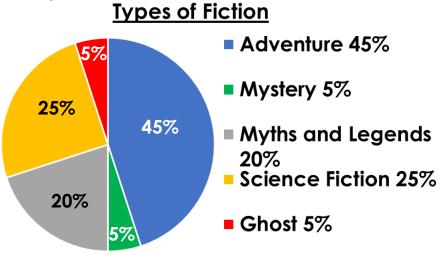
Pupils in Key Stage 2





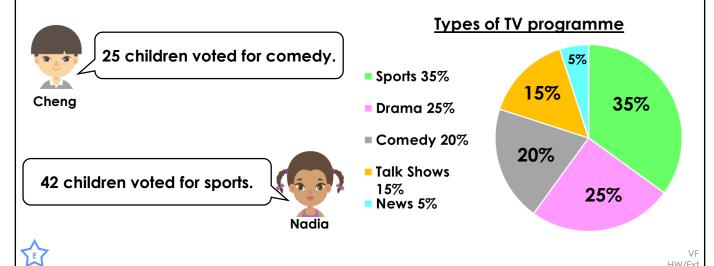
Pie Charts with Percentages

4. True or false? Out of the 200 children that voted, 15 more children liked science fiction than myths and legends.



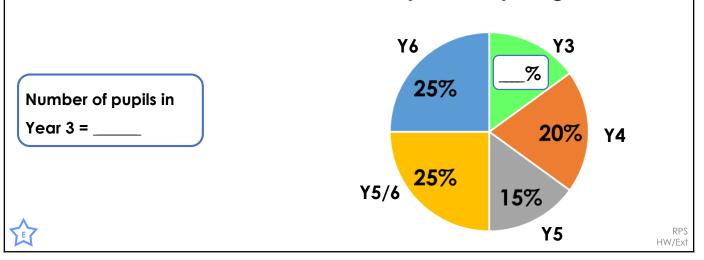
HW/Ext

5. 120 children voted for their favourite type of TV programme. Who is correct?



6. There are 180 pupils in Key Stage 2. Fill in the missing percentage and work out how many children are in Year 3.

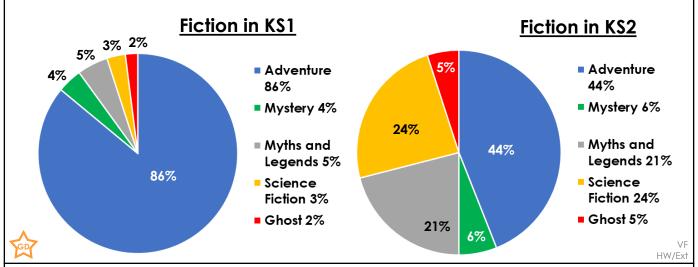
Pupils in Key Stage 2



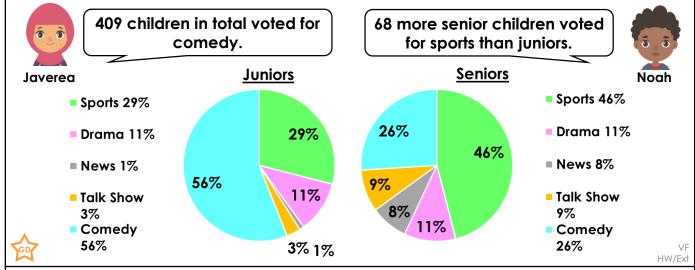


Pie Charts with Percentages

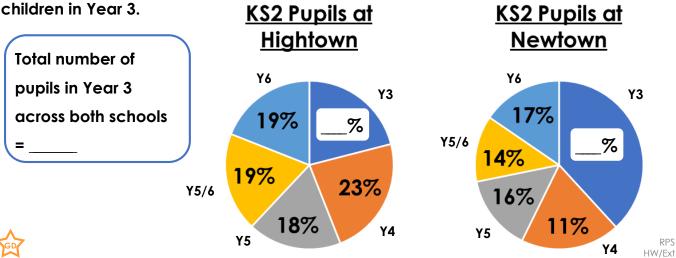
7. True or false? 30 more KS2 children liked myths and legends than KS1 children. There are 200 children in each Key Stage.



8. 400 children in each age group voted for their favourite type of TV programme. Who is correct?



9. At Hightown there are 400 pupils in KS2. There are a total of 180 pupils in Year 4 across both schools. Fill in the missing percentages and work out the total number of children in Year 3





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<u>Homework/Extension</u> Pie Charts with Percentages

Developing

- 1. False, 20 more children voted for science fiction than myths and legends.
- 2. Haroon is correct.
- 3. 20%, 40 pupils in Year 3

Expected

- 4. False, 10 more children voted for science fiction than myths and legends.
- 5. Nadia is correct.
- 6. 15%, 27 pupils in Year 3

<u>Greater Depth</u>

- 7. False, 32 more KS2 children like myths and legends than KS1
- 8. Noah is correct.
- 9. Hightown 21%, Newtown 42%; Hightown = 84 Y3 pupils, Newtown = 336 Y3 pupils = 420 Y3 pupils in total