Homework/Extension Step 5: Read and Interpret Pie Charts

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 whether a statement is correct. Using halves, thirds, quarters and fifths with numbers up to 100. Including up to 5 segments and up to 2 different denominators per chart.

Expected Decide whether a statement is correct. Using halves, quarters, eighths, fifths, thirds and sixths, with numbers up to 1000. Including up to 6 segments and up to 3 different denominators per chart, where all denominators are direct multiples.

Greater Depth Decide whether a statement is correct. Using any fraction, with numbers up to 1,000. Including up to 6 segments and up to 4 different denominators per chart, where denominators are not always direct multiples.

Questions 2, 5 and 8 (Varied Fluency)

Developing Compare two sets of data in a pie chart. Using the same criteria as in Q1. Expected Compare two sets of data in a pie chart. Using the same criteria as in Q4. Greater Depth Compare two sets of data in a pie chart. Using the same criteria as in Q7.

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

Developing Complete the missing labels in the table and pie chart. Using the same criteria as in Q1.

Expected Complete the missing labels in the table and pie chart. Using the same criteria as in Q4.

Greater Depth Complete the missing labels in the table and pie chart. Using the same criteria as in Q7.

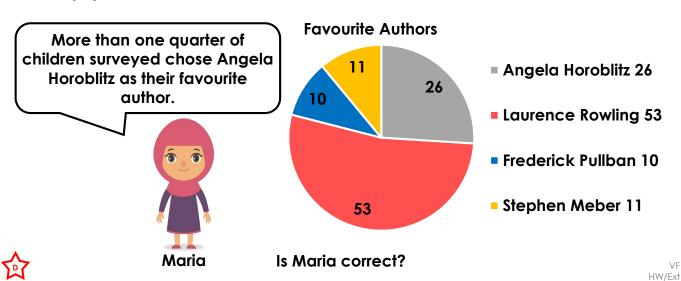
More Year 6 Statistics resources.

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

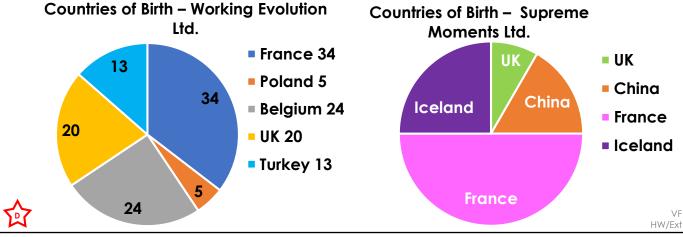


Read and Interpret Pie Charts

1. Some pupils were asked to name their favourite children's author.



2. The nationalities of employees at 2 companies are shown in the pie charts below. The same number of people were asked at both companies. How many French employees does Supreme Moments Ltd have?



3. Each person who attended a food festival in York was asked to choose their favourite Greek food. Fill in any missing labels and explain your reasoning.



Number of People
4
44
11
7

RPS HW/Ext

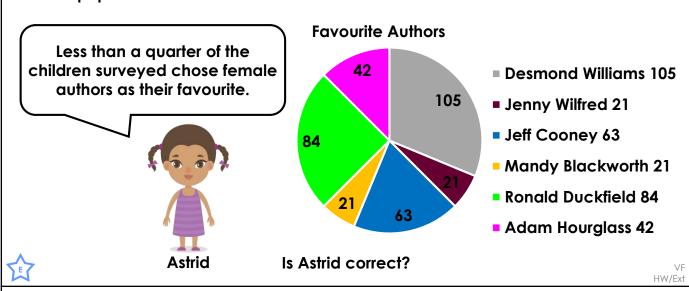


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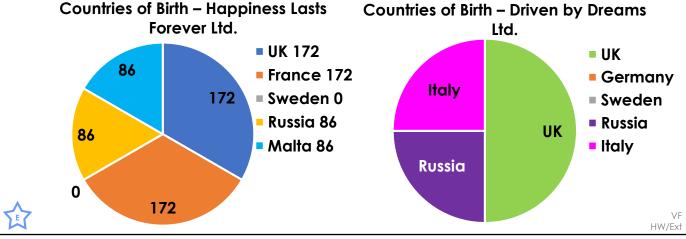
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Read and Interpret Pie Charts

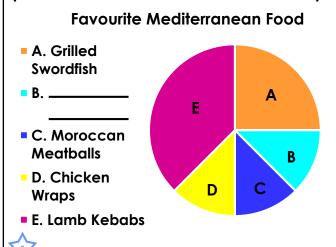
4. Some pupils were asked to name their favourite children's author.



5. The nationalities of employees at 2 companies are shown in the pie charts below. The same number of people were asked at both companies. How many more Russians does Driven by Dreams Ltd employ?



6. Each person who attended a food festival in London was asked to choose their preferred Mediterranean food. Fill in any missing labels and explain your reasoning.



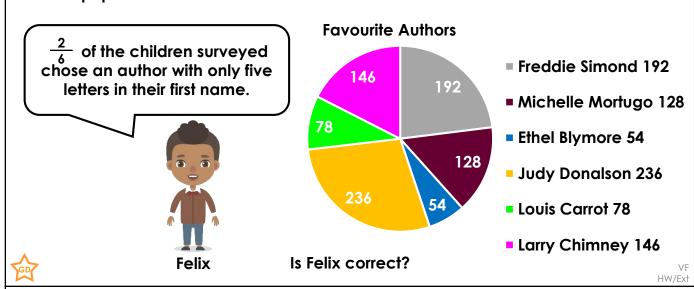
Favourite Mediterranean Food	Number of People
Grilled Swordfish	
Spanish Omelette	98
Moroccan Meatballs	98
Chicken Wraps	98
Lamb Kebabs	
	784

HW/Ext

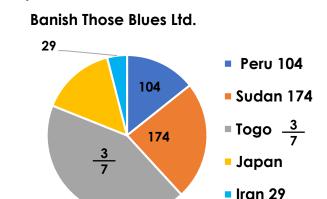


Read and Interpret Pie Charts

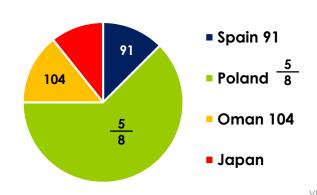
7. Some pupils were asked to name their favourite children's author.



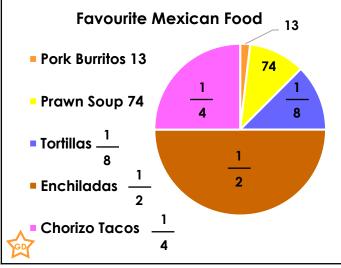
8. The nationalities of employees at 2 companies are shown in the pie charts below. 728 people were asked at both companies. Which company employs the most Japanese?



Happy Workforce Ltd.



9. Each person who attended a food festival in Newcastle was asked to choose their preferred Mexican food. Fill in any missing labels and explain your reasoning.



Favourite Mexican food	Number of People
Pork Burritos	13
Prawn Soup	74
Tortillas	
Potato Enchiladas	
Chorizo Tacos	
Total Number of Attendees	
	Pi

HW/Ext

HW/Ext



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Homework/Extension Read and Interpret Pie Charts

<u>Developing</u>

- 1. Maria is correct. $\frac{26}{100}$ children chose Angela Horoblitz as their favourite author. $\frac{1}{4}$ of the children surveyed is 25. 26 is greater than 25.
- 2. Supreme Moments Ltd. has 48 French employees.
- 3. Feta cheese -22; total number of attendees =88.

Expected

- 4. Astrid is correct. Mandy and Jenny are the only female authors. 21 + 21 = 42. $336 \div 4 =$ 84 so this is $\frac{1}{4}$. 42 is less than 84.
- 5. 43 more Russians. Driven by Dreams Ltd. employs 129 Russians whereas Happiness Lasts Forever Ltd employs 86 so 129 - 86 = 43.
- 6. Grilled swordfish 196; Lamb kebabs 294. The missing label at the bottom left of the table should say 'Total number of people'. The missing label on the pie chart key is 'Spanish omelette'.

<u>Greater Depth</u>

- 7. Felix is correct. Ethel, Louis and Larry are the only authors listed that have five letters in their first names. 54 + 78 + 146 = 278. $\frac{2}{3}$ of 834 = 2788. Banish Those Blues Ltd. has 109 Japanese employees and Happy Workforce Ltd. has
- 78. Banish those Blues has the largest number.
- 9. Tortillas 87; Potato enchiladas 348; Chorizo Tacos 174 and the total number of attendees was 696.

