Varied Fluency 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 these to solve problems</u>

Differentiation:

Developing Questions to support reading and interpreting pie charts. 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 Questions to support reading and interpreting pie charts. 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 Questions to support reading and interpreting pie charts. Using any fraction, with numbers up to 1000. Including up to 6 segments and up to 4 different denominators per chart, where all denominators are not always direct multiples.

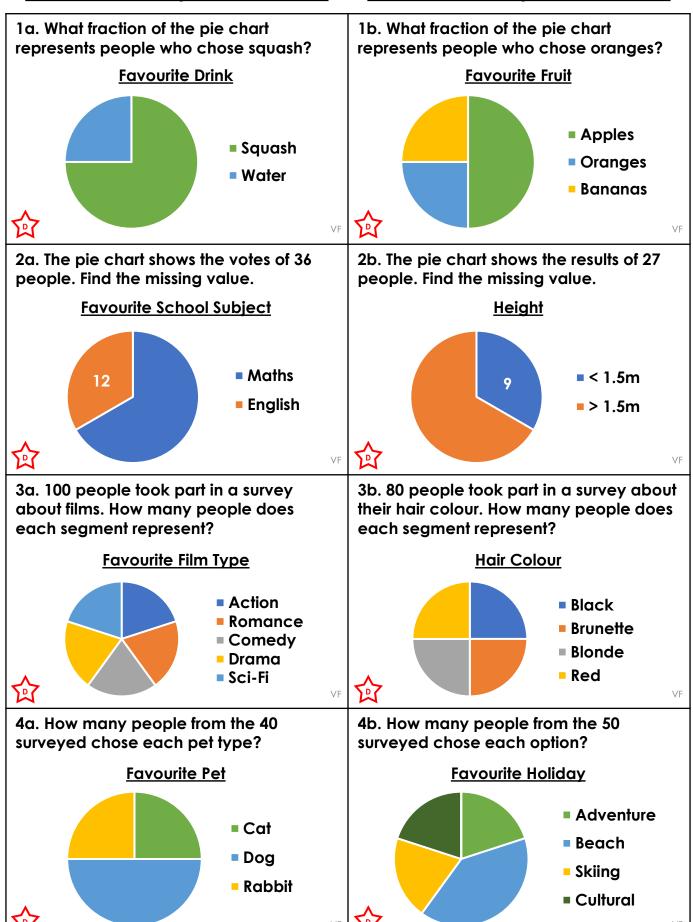
More Year 6 Statistics resources.

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



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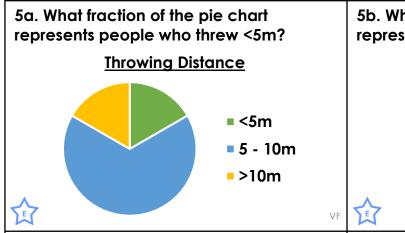




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5b. What fraction of the pie chart represents people who chose fantasy?

Favourite Type of Book

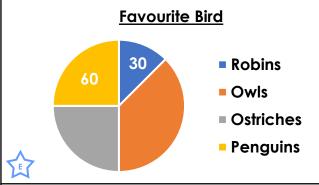
Poetry

Non-Fiction

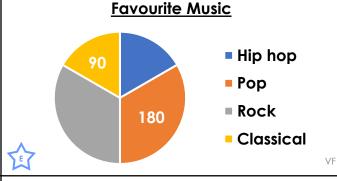
Sci-fi

Fantasy

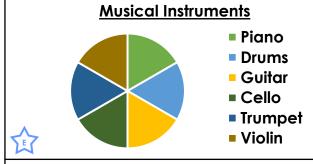
6a. The pie chart shows the votes of 240 people. Find the missing values.



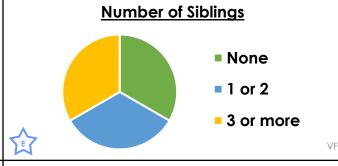
6b. The pie chart shows the results of 540 people. Find the missing values.



7a. 720 people took part in a survey about playing instruments. How many people does each segment represent?



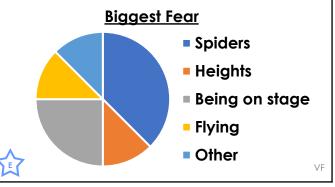
7b. 990 people took part in a survey about siblings. How many people does each segment represent?



8a. How many people from the 480 surveyed chose each option?



8b. How many people from the 320 surveyed chose each option?





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VF

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Bulletproof

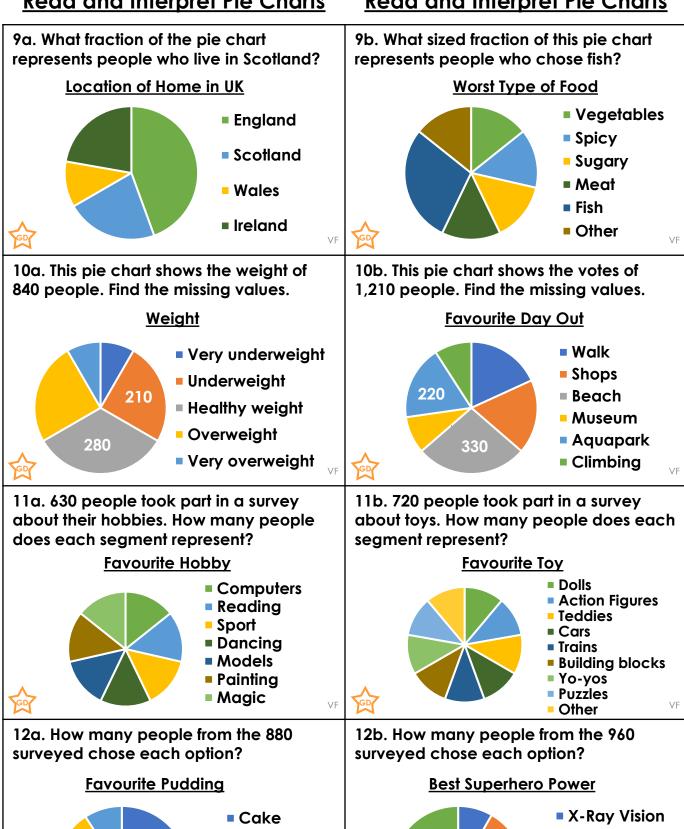
Invisibility

Speed

Flying

Strength

VF





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Fruit

Crumble

Brownie

Other

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<u>Varied Fluency</u> Read and Interpret Pie Charts

Developing

1a. $\frac{3}{4}$

2a. 24

3a. 20

4a. Cat – 10, Dog – 20, Rabbit – 10

Developing

1b. $\frac{1}{4}$

2b. 18

3b. 20

4b. Adventure – 10, Beach – 20, Skiing –

10, Cultural - 10

Expected

5a. $\frac{1}{6}$

6a. Owls – 90, Ostriches – 60

7a. 120

8a. UK – 180, Europe – 180, Rest of the

world - 120

Expected

5b. $\frac{1}{8}$

6b. Hip Hop - 90, Rock - 180

7b. 330

8b. Spiders – 120, Heights – 40, Being on

stage – 80, Flying – 40, Other – 40

<u>Greater Depth</u>

9a. 2

10a. Very underweight – 70, Overweight –

210, Very overweight – 70

11a. 90

12a. Cake – 320, Fruit – 80, Crumble – 160,

Brownie – 240, Other – 80

Greater Depth

9b. $\frac{2}{7}$

10b. Walk – 220, Shops – 220, Museum –

110, Climbing - 110

11b. 80

12b. X-Ray Vision – 80, Bulletproof – 160,

Invisibility – 240, Speed – 80, Flying – 240,

Strength - 160