

Lesson 1

I am learning to read and interpret pie charts with percentages (1)

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:

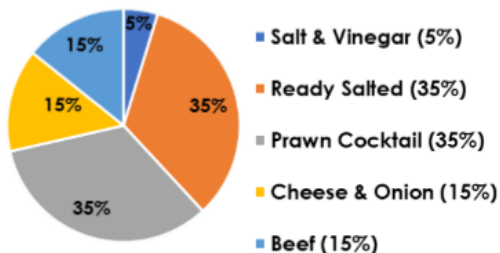
<https://www.youtube.com/watch?v=SxSewF7E1-0>

Fluency

Key vocabulary: Sector, Percentage, Total	Your answer
<p>1a. 50 children voted for their favourite crisps. Here are the results:</p> <p style="text-align: center;"><u>Favourite Crisps</u></p> <p> ■ Salt & Vinegar (40%) ■ Ready Salted (20%) ■ Prawn Cocktail (10%) ■ Cheese & Onion (30%) </p> <p>★ How many voted for salt and vinegar?</p>	20
<p>2a. 150 children were asked what pet they have. Here are the results:</p> <p style="text-align: center;"><u>Pets</u></p> <p> ■ Cat (20%) ■ Dog (30%) ■ Rabbit (10%) ■ None (40%) </p> <p>★ How many more children have no pets than have cats?</p>	30
<p>4a. If 5 people chose apples, how many chose strawberry?</p> <p style="text-align: center;"><u>Favourite Fruit</u></p> <p> ■ Apple (10%) ■ Strawberry (40%) ■ Orange (10%) ■ Banana (40%) </p>	20

5a. 60 children voted for their favourite crisps. Here are the results:

Favourite Crisps

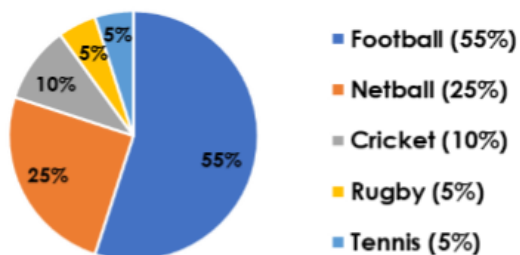


How many voted for beef?

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7a. 120 children were asked their favourite sport. Here are the results:

Favourite Sports

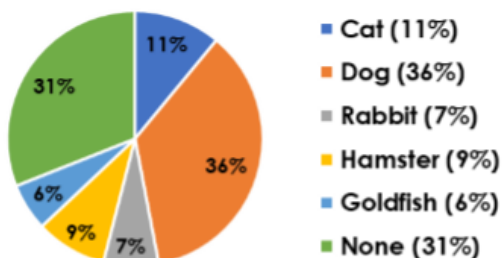


How many chose each sport?

Football – 66
 Netball – 30
 Cricket – 12
 Rugby – 6
 Tennis – 6

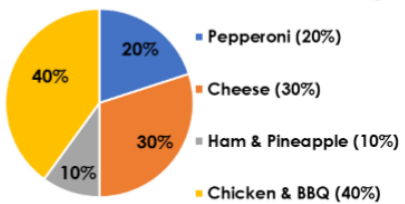

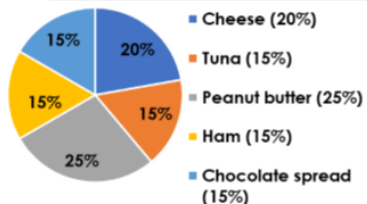

10a. 200 children were asked what pets they have. How many more had no pets than had goldfish, hamsters or rabbits?

Pets

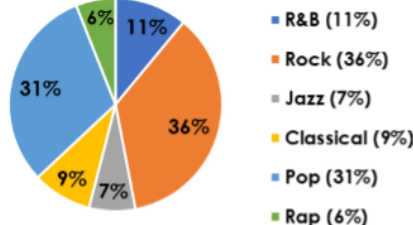


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Reasoning

Key vocabulary: Sector, Percentage, Total	Your answer
<p>2a. Klara is reading a pie chart about the favourite pizza toppings of 50 children.</p> <p style="text-align: center;"><u>Favourite Pizza Topping</u></p>  <p>She says,</p> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-bottom: 10px;"> <p>Most people like chicken and BBQ on their pizza.</p> </div> <p style="text-align: right; margin-right: 20px;">Klara</p>  <p>D Is she right? Explain how you know. R</p>	<p>No, although that section is largest it is not over 50%.</p>
<p>5a. Lisa is reading a pie chart about the favourite sandwich fillings of 60 children.</p> <p style="text-align: center;"><u>Favourite Sandwich Filling</u></p>  <p>She says,</p> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-bottom: 10px;"> <p>Twice as many said peanut butter as said cheese.</p> </div> <p style="text-align: right; margin-right: 20px;">Lisa</p>  <p>E Is she right? Explain how you know. R</p>	<p>No because double 20% is 40%.</p>

Problem Solving

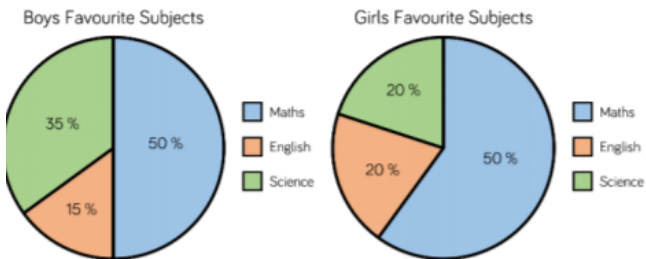
Key vocabulary: Sector, Percentage, Total	Your answer
<p>7a. Children were asked about their favourite genre of music. This was the result:</p> <p style="text-align: center;"><u>Favourite Genre of Music</u></p>  <p>22 children like R&B.</p> <p>Use this information to help you convert the pie chart into a table.</p> <p>GD PS</p>	<p>R&B – 22 Rock – 72 Jazz – 14 Classical – 18 Pop – 6 Rap – 12</p>

Extension

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

Your answer

120 boys and 100 girls were asked which was their favourite subject. Here are the results:



Jack says:



More girls prefer Maths than boys because 60 % is bigger than 50 %.

Do you agree? Explain why.

Jack is incorrect because the same amount of girls and boys like maths.

Boys:
 $50\% \text{ of } 120 = 60$

Girls:
 $60\% \text{ of } 100 = 60$