

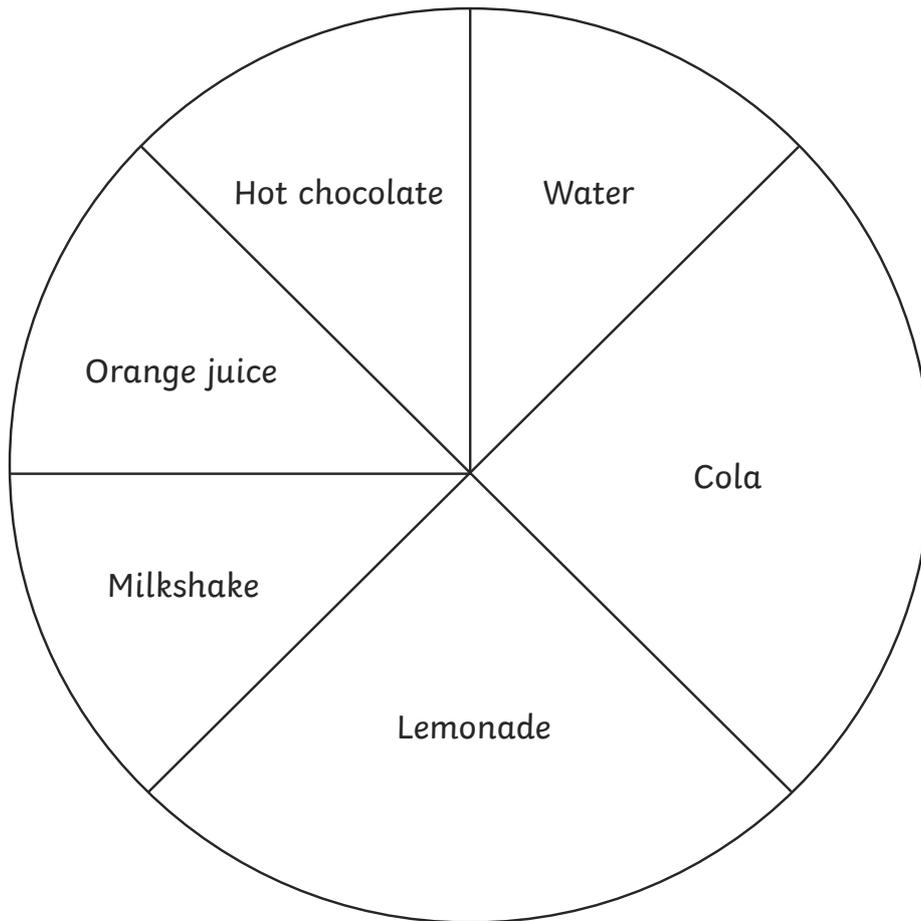
At the Cafe Pie Charts

I can read and interpret pie charts.



This pie chart shows the different drinks that the children in Newtown Primary School ordered at the cafe. 15 children chose orange juice.

Three children are talking about what the different segments represent.



1.



Half of the children chose a fizzy drink.

Do you agree with Anna?
Explain your reasoning.

<p>2.</p>  <p>20 children chose lemonade.</p>	<p>Do you agree with Jakob? Explain your reasoning.</p> <hr/> <hr/> <hr/> <hr/>
<p>3.</p>  <p>Three quarters of the children chose a cold drink.</p>	<p>Do you agree with Liana? Explain your reasoning.</p> <hr/> <hr/> <hr/> <hr/>
<p>4.</p>  <p>More children chose hot chocolate, water or cola than hot chocolate, orange juice or milkshake.</p>	<p>Do you agree with Mitchell? Explain your reasoning.</p> <hr/> <hr/> <hr/> <hr/>

At the Cafe Pie Charts Answers

Question	Answer
1. "Half of the children chose a fizzy drink." Do you agree with Anna? Explain your reasoning.	<i>Anna is right. One quarter of the children chose lemonade and one quarter of the children chose cola. Two quarters is equivalent to one half.</i>
2. "20 children chose lemonade." Do you agree with Jakob? Explain your reasoning.	<i>Jakob is incorrect. 15 children chose orange juice and that sector is one eighth of the pie chart. One eighth is half of a quarter, and the chart shows that a quarter of the children chose lemonade. Therefore, 15 is half of the value of lemonade, so 30 children chose lemonade.</i>
3. "Three quarters of the children chose a cold drink." Do you agree with Liana? Explain your reasoning.	<i>Liana is incorrect. The only hot drink is hot chocolate and the hot chocolate sector is one eighth of the pie chart. Therefore, seven eighths of the children chose a cold drink.</i>
4. "More children chose hot chocolate, water or cola than hot chocolate, orange juice or milkshake." Do you agree with Mitchell? Explain your reasoning.	<i>Mitchell is right. The sectors for hot chocolate, water and cola together make one half of the pie chart and totals 60 children. The sectors for hot chocolate, orange juice and water together make three eighths of the pie chart and totals 45 children. One half, 60 children, is more than three eighths, 45 children.</i>