

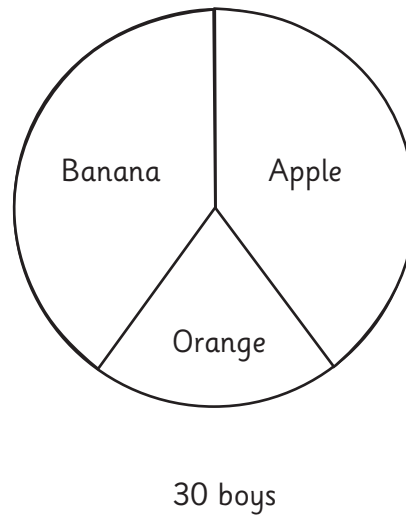
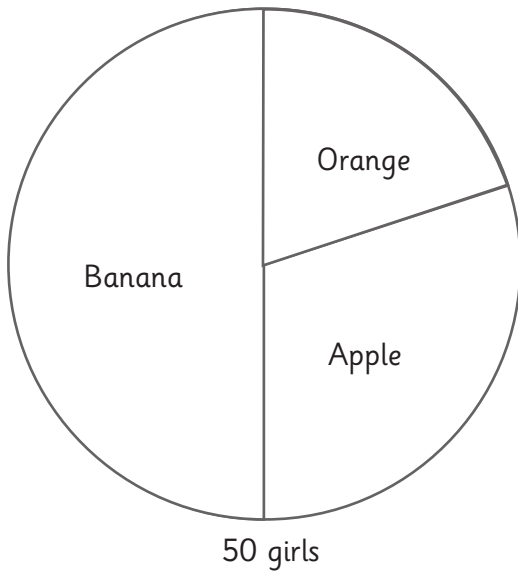
Name:

Date:

## Key Stage 2 Maths Practice Reasoning: Pie Charts



A class of children research children's favourite fruit. They asked 50 girls and 30 boys. They recorded their findings with these 2 pie charts.



1. Estimate the number of girls and boys who chose each fruit as their favourite.

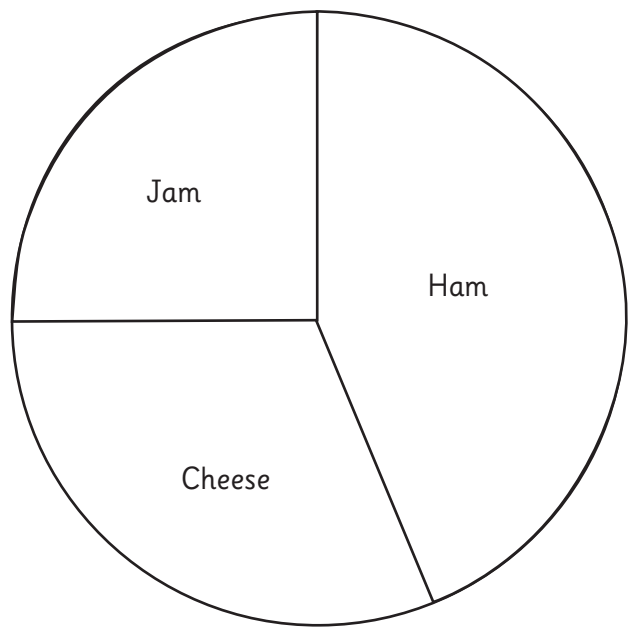
Fruit	Girls	Boys
Apple		
Orange		
Banana		

2. A pie chart is drawn to combine the number of boys and girls combined who chose each fruit. Calculate the angle required for each slice of pie.

Fruit	Angle
Apple	
Orange	
Banana	

A class make some sandwiches. They give the sandwiches to 80 children and record which sandwich is chosen first by each child.

The results are recorded in this pie chart.



3. a) Which is the most popular sandwich filling? \_\_\_\_\_

b) How do you know?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. To the nearest 5%, estimate the percentage of children that chose each sandwich filling first.

Sandwich filling	Percentage
Ham	
Cheese	
Jam	

5. James argues that more children chose ham than cheese and jam. Explain why James is incorrect.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

question	answer	notes												
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1	<table><tr><th>Fruit</th><th>Girls</th><th>Boys</th></tr><tr><td>Apple</td><td>15</td><td>12</td></tr><tr><td>Orange</td><td>10</td><td>6</td></tr><tr><td>Banana</td><td>25</td><td>12</td></tr></table>	Fruit	Girls	Boys	Apple	15	12	Orange	10	6	Banana	25	12	estimations will vary
Fruit	Girls	Boys												
Apple	15	12												
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2	<table><tr><th>Fruit</th><th>Angle</th></tr><tr><td>Apple</td><td>121.5°</td></tr><tr><td>Orange</td><td>72°</td></tr><tr><td>Banana</td><td>166.50°</td></tr></table>	Fruit	Angle	Apple	121.5°	Orange	72°	Banana	166.50°					
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A class of children research children's favourite fruit. They asked 50 girls and 30 boys. They recorded their findings with these 2 pie charts.														
3a	Ham													
3b	Ham has the largest angle / area of slice													
4	<table><tr><th>Sandwich filling</th><th>Percentage</th></tr><tr><td>Ham</td><td>45% (43.75%)</td></tr><tr><td>Cheese</td><td>30% (31.25%)</td></tr><tr><td>Jam</td><td>25%</td></tr></table>	Sandwich filling	Percentage	Ham	45% (43.75%)	Cheese	30% (31.25%)	Jam	25%					
Sandwich filling	Percentage													
Ham	45% (43.75%)													
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Jam	25%													
5	Ham is less than half the area/ angle, or cheese and jam are more than half, or an answer that uses the information from Q2 showing 45% is less than half or 55% is more than half.													