

question	answer	marks	notes										
1. Interpret and construct pie charts and line graphs and use these to solve problems.													
a	<table border="1"> <tr> <td>Which is the most popular item sold in August?</td> <td>Ice cream</td> </tr> <tr> <td>How many hot chocolates are sold on average per day in April?</td> <td>55</td> </tr> <tr> <td>What is the difference between the average number of ice creams and hot chocolates sold each day in November?</td> <td>45</td> </tr> <tr> <td>During how many months did the ice cream van sell more than 100 ice creams on average per day?</td> <td>5</td> </tr> <tr> <td>Ice cream cones come in packs of 50. How many boxes of ice cream cones will be needed per day in June?</td> <td>3</td> </tr> </table>	Which is the most popular item sold in August?	Ice cream	How many hot chocolates are sold on average per day in April?	55	What is the difference between the average number of ice creams and hot chocolates sold each day in November?	45	During how many months did the ice cream van sell more than 100 ice creams on average per day?	5	Ice cream cones come in packs of 50. How many boxes of ice cream cones will be needed per day in June?	3	5	Award one mark for each correct answer.
	Which is the most popular item sold in August?	Ice cream											
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	$\pounds 2 \times 60 = \pounds 120$ $\pounds 1 \times 30 = \pounds 30$ $\pounds 120 + \pounds 30 = \pounds 150$ £150	2	Award two marks for a correct answer. Where the answer is wrong, award one mark for evidence of a correct calculation.										
b	<p style="text-align: center;">A graph to show Tom's height</p>	1											
	<table border="1"> <tr> <td>Using the information on the graph, estimate Tom's approximate height when he was 5 years old.</td> <td>Accept an answer between 100 and 105 cm.</td> </tr> <tr> <td>Using information on the graph, predict how tall Tom will be when he is 8 years old.</td> <td>Accept an answer between 123 and 127cm</td> </tr> </table>	Using the information on the graph, estimate Tom's approximate height when he was 5 years old.	Accept an answer between 100 and 105 cm.	Using information on the graph, predict how tall Tom will be when he is 8 years old.	Accept an answer between 123 and 127cm	2	Award one mark for each correct answer.						
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<p>For his seventh birthday, Tom is going to the theme park. He wants to go on a rollercoaster which requires riders have to be at least 120cm tall. Do you think he will be tall enough to go on the ride?</p> <p>Yes No</p>		2	Award one mark for the answer 'no' identified. Award a further mark for a relevant explanation.										

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c	What percentage of people said that basketball was their favourite sport?	12.5%	3 Award one mark for each correct answer.
	How many people said that football was their favourite sport?	12	
	How many more people chose tennis as their favourite sport compared to rugby?	3	
d	Tennis court It is twice as popular as rugby or basketball		2 Award one mark for the answer of 'tennis court'. Award a further mark for a relevant explanation, referring to the data in the pie chart.
	How many people were surveyed altogether?	60	3 Award one mark for each correct answer.
	What percentage of people surveyed said that they were going to Greece on holiday?	25%	
	What percentage of people surveyed said that they were going to Spain on holiday, to the nearest whole number?	33%	
5 x £250 = £1250		2 Award two marks for a correct answer. Where the answer is wrong, award one mark for evidence of a correct calculation.	
e	<p>50% of the chart coloured to represent peach, 25% coloured to represent banana, 12.5% coloured to represent apple and 12.5% coloured to represent mango (with corresponding colours on the key).</p>		1 Accept sections coloured in any order / position, as long as the intention is clear.
	What percentage of children surveyed gave the answer peach as their favourite fruit?	50%	2 Award one mark for each correct answer.
	What is the percentage difference between the number of children who answered banana and mango as their favourite fruit?	12.5%	

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2. Calculate and interpret the mean as an average.								
a	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border: 2px solid black; border-radius: 50%; padding: 2px;">28 minutes</td> <td style="padding: 2px;">32 minutes</td> <td style="padding: 2px;">26 minutes</td> <td style="padding: 2px;">29 minutes</td> <td style="padding: 2px;">30 minutes</td> </tr> </table>	28 minutes	32 minutes	26 minutes	29 minutes	30 minutes	1	
28 minutes	32 minutes	26 minutes	29 minutes	30 minutes				
b	What is the mean average score Nisha achieved per throw? 40 points	1						
	What score does Connor have to get in his final throw to achieve an average score of 36 points per throw? 40 points	1						
c	$17 + 18 + 20 + 17 = 72$ $72 \div 4 = 18$ $18 \times 3 = 54$ $54 + 72 = 126$ 126 cupcakes	2	Award two marks for a correct answer. Where the answer is wrong, award one mark for evidence of a correct calculation.					
		Total 30						