

# Day 5 Answers

Task 1	Task 2	Task 3																																												
<p><b>SATs Book Activities</b> <b>Developing/ Expected</b> <b>Pg. 53 and 55</b></p> <p>3 a) gardening and fashion b) sports and games</p> <p>Bar charts (page 53) 1 a) 13 b) 103</p> <p>2 a)</p> <table border="1"> <thead> <tr> <th></th> <th>Object A</th> <th>Object B</th> <th>Object C</th> <th>Object D</th> </tr> </thead> <tbody> <tr> <td>Mass (g)</td> <td>350</td> <td>500</td> <td>550</td> <td>650</td> </tr> </tbody> </table> <p>b) Bar correctly drawn to show 450 g</p> <p>3 a) 2 b) Accept a bar that is clearly more than £10 but less than £12.50 c) Award 2 marks for the correct answer of 11.25. Award 1 mark for evidence of the correct method with no more than one mathematical error, e.g. <math>12.50 + 25 + 17.50 + 22.50 + 11.25 = 88.75</math> <math>£100 - £88.75 =</math> wrong answer</p> <p>Line graphs (page 55) 1 a)</p> <table border="1"> <thead> <tr> <th>Day</th> <td>4</td> <td>8</td> <td>14</td> <td>20</td> </tr> </thead> <tbody> <tr> <th>Height (mm)</th> <td>10</td> <td>25</td> <td>35</td> <td>55</td> </tr> </tbody> </table> <p>b) 67.5 (accept an answer that is greater than 66 but less than 69)</p> <p>2 a) 5 b) 20 c) <math>2\frac{1}{2}</math> hours</p> <p><b>Greater Depth</b></p> <p>Line graphs (page 57) 1 a)</p> <table border="1"> <thead> <tr> <th>Distance (km)</th> <td>1</td> <td>2 or 5.5</td> <td>3.75 or 4.75</td> <td>4</td> <td>5.5</td> </tr> </thead> <tbody> <tr> <th>Height (m)</th> <td>375</td> <td>625</td> <td>875</td> <td>937.5</td> <td>625</td> </tr> </tbody> </table> <p>b) 2.5 2 a) 3.75 million b) 1.375 million (accept a value greater than 1.3 million but less than 1.4 million) c) Accept more people are at work during the day so the number of viewers at 1 p.m. will be fewer or more people are at home in the evening and at work during the day or a similar explanation.</p> <p>Bar charts (page 55) 1 a)</p> <table border="1"> <thead> <tr> <th></th> <th>Peter</th> <th>Remi</th> <th>Amber</th> <th>Jayden</th> <th>Kia</th> </tr> </thead> <tbody> <tr> <td></td> <td>100%</td> <td>65%</td> <td>50%</td> <td>30%</td> <td>80%</td> </tr> </tbody> </table>		Object A	Object B	Object C	Object D	Mass (g)	350	500	550	650	Day	4	8	14	20	Height (mm)	10	25	35	55	Distance (km)	1	2 or 5.5	3.75 or 4.75	4	5.5	Height (m)	375	625	875	937.5	625		Peter	Remi	Amber	Jayden	Kia		100%	65%	50%	30%	80%	<p><b>Arithmetic</b></p> <p>15. 80</p> <p>16. 496.2</p> <p>17. 60</p> <p>18. 0.0289</p> <p>19. 60</p> <p>20. 281.52 [1]</p> <p>21. For 2 marks: [2] <math>17\text{ r}6</math> or <math>17\frac{6}{42}</math> or <math>17\frac{1}{7}</math> or <math>17.1(42\dots)</math></p> <p>For 1 mark: 17 or evidence of either a long division method or short division method with only one error (carry figures must be seen in a short division method)</p>	<p><b>Problem Solving/ Reasoning</b> <b>Task 1</b> Gives a correct interpretation of the graph, eg:</p> <ul style="list-style-type: none"> <li>It is a straight line</li> <li>It goes up steadily</li> <li>The angle of the line stays the same</li> <li>The gradient of the line is constant <i>Accept minimally acceptable explanation, eg:</i> <ul style="list-style-type: none"> <li>It is straight</li> <li>It doesn't bend</li> <li>It is a diagonal</li> </ul> </li> </ul> <p><b>Task 2</b> (a) 4 km (b) 4:15pm <i>The answer is a specific time</i></p> <p><b>Task 3</b> (a) Gives an answer in the range 25 to 29 inclusive (b) Gives an answer in the range 44 to 52 inclusive</p> <p><b>Task 4</b> Indicates Nik and gives a correct explanation eg</p> <ul style="list-style-type: none"> <li>1 sandwich, 2 apples and 1 banana is missing from the graph and that is what Nik had in his lunch box</li> <li>The graph shows the correct number of fruit bars and Nik is the only one who does not have a fruit bar in his lunch box so his must be the missing one</li> <li>The totals from the table are 7, 6, 5, 6, and from the graph 6, 4, 4, 6, and the difference is Nik <i>Accept minimally acceptable explanation</i> eg             <ul style="list-style-type: none"> <li>1 sandwich, 2 apples, 1 banana</li> <li>because the number of fruit bars is correct</li> <li>1 banana missing</li> <li>7, 6, 5, 6 and 6, 4, 4, 6 seen</li> </ul> </li> </ul> <p><b>Do not accept incorrect or incomplete explanation</b> eg</p> <ul style="list-style-type: none"> <li>1 sandwich, 2 apples</li> <li>There are 6 fruit bars</li> <li>2 apples are missing</li> </ul>
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# Day 5 Answers

2) Computer game completed

Name	Percentage (%)
Peter	90
Ben	50
Amber	40
Jayden	20
Mia	70

Percentage (%) of computer game completed

2 Award 1 mark for correct answer YES and an explanation either:

- the pebbles are 0.375 kg lighter than the soil and 0.375 is equivalent to  $\frac{3}{8}$
- the difference between the two masses is 0.375 and this is equivalent to  $\frac{3}{8}$
- the pebbles are  $1\frac{1}{2}$  spaces (intervals) lower on the bar chart; one space is  $\frac{1}{4}$  or  $\frac{2}{8}$  kg so  $1\frac{1}{2}$  spaces is  $\frac{3}{8}$  kg.

Do not award a mark for simply restating that the pebbles are  $\frac{3}{8}$  kg lighter than the soil.

3 a) A and D    b) 2017    c) £45,000