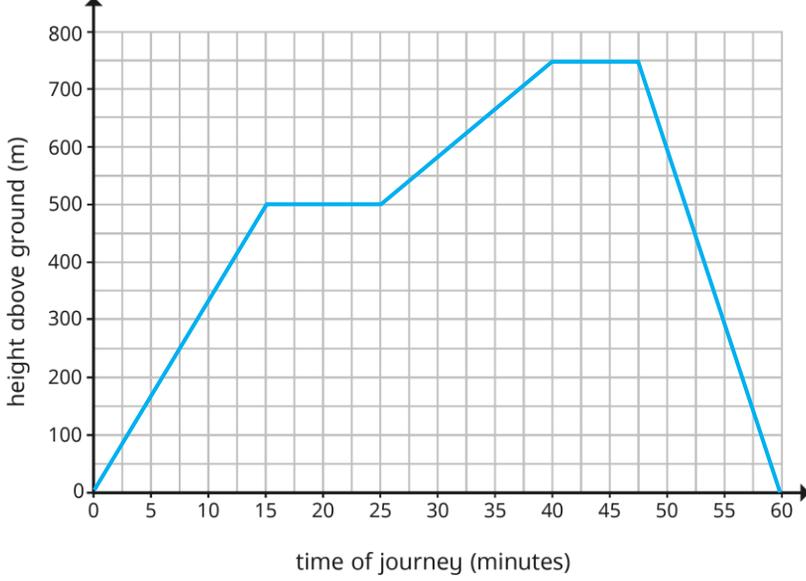


Y6 – Spring – Block 6 – Step 1 – Line graphs Answers

Question	Answer																											
1	a) 4 °C b) 2 °C c) 3 °C d) 3 °C																											
2	a) 2002 b) 2012 and 2020 c) car 1 d) approximately 10 years e) No The value of car 2 decreased from £15,000 to £10,000, and half of £15,000 is £7,500 The vertical scale does not start from zero.																											
3	<p>The graph plots the amount of water in litres on the y-axis (ranging from 2,000 to 6,000) against time on the x-axis (ranging from 6:00 pm to 3:00 pm). Two tanks are shown: Tank 1 (blue dashed line) and Tank 2 (red dashed line). Both tanks show a similar pattern of increasing water levels during the night and early morning, peaking at 6:00 am, and then decreasing during the day.</p> <table border="1"> <caption>Data points for Tank 1 and Tank 2</caption> <thead> <tr> <th>Time</th> <th>Tank 1 (litres)</th> <th>Tank 2 (litres)</th> </tr> </thead> <tbody> <tr> <td>6:00 pm</td> <td>3,000</td> <td>2,500</td> </tr> <tr> <td>9:00 pm</td> <td>3,500</td> <td>3,100</td> </tr> <tr> <td>mid-night</td> <td>4,200</td> <td>3,800</td> </tr> <tr> <td>3:00 am</td> <td>5,500</td> <td>5,100</td> </tr> <tr> <td>6:00 am</td> <td>6,000</td> <td>5,800</td> </tr> <tr> <td>9:00 am</td> <td>2,000</td> <td>3,100</td> </tr> <tr> <td>noon</td> <td>2,200</td> <td>2,500</td> </tr> <tr> <td>3:00 pm</td> <td>2,800</td> <td>3,000</td> </tr> </tbody> </table>	Time	Tank 1 (litres)	Tank 2 (litres)	6:00 pm	3,000	2,500	9:00 pm	3,500	3,100	mid-night	4,200	3,800	3:00 am	5,500	5,100	6:00 am	6,000	5,800	9:00 am	2,000	3,100	noon	2,200	2,500	3:00 pm	2,800	3,000
Time	Tank 1 (litres)	Tank 2 (litres)																										
6:00 pm	3,000	2,500																										
9:00 pm	3,500	3,100																										
mid-night	4,200	3,800																										
3:00 am	5,500	5,100																										
6:00 am	6,000	5,800																										
9:00 am	2,000	3,100																										
noon	2,200	2,500																										
3:00 pm	2,800	3,000																										

Question	Answer														
4	 <p>The graph shows the height above ground in meters over a 60-minute journey. The vertical axis (y-axis) is labeled 'height above ground (m)' and ranges from 0 to 800 in increments of 100. The horizontal axis (x-axis) is labeled 'time of journey (minutes)' and ranges from 0 to 60 in increments of 5. The line starts at the origin (0,0), rises linearly to (15,500), remains constant at 500m until 25 minutes, rises linearly to (40,750), remains constant at 750m until 48 minutes, and then falls linearly to (60,0).</p> <table border="1"> <caption>Data points from the line graph</caption> <thead> <tr> <th>Time of journey (minutes)</th> <th>Height above ground (m)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>15</td> <td>500</td> </tr> <tr> <td>25</td> <td>500</td> </tr> <tr> <td>40</td> <td>750</td> </tr> <tr> <td>48</td> <td>750</td> </tr> <tr> <td>60</td> <td>0</td> </tr> </tbody> </table>	Time of journey (minutes)	Height above ground (m)	0	0	15	500	25	500	40	750	48	750	60	0
Time of journey (minutes)	Height above ground (m)														
0	0														
15	500														
25	500														
40	750														
48	750														
60	0														