





Day: _____ Date: _____

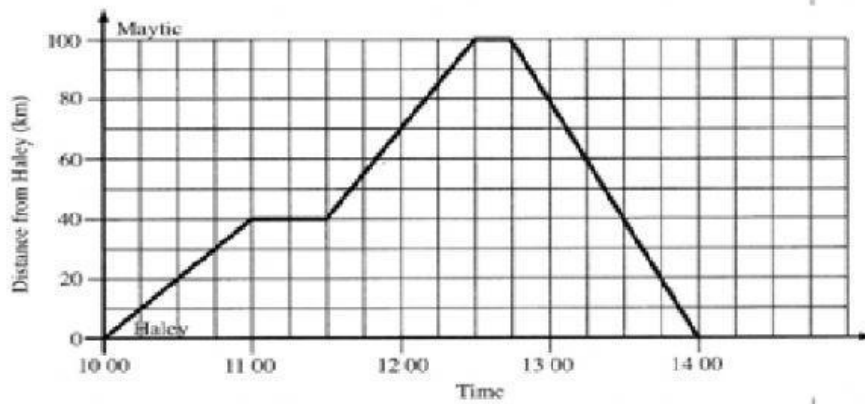
Mathematics

Speed/Distance/Time

Answer all of the questions.

<div style="display: inline-block; width: 50px; text-align: center;">★</div> <h2 style="margin: 0;">Speed problems</h2>			
<p>How long will it take a bike rider to travel 36 mi at a constant speed of 9 miles per hour?</p> <p>If a car traveled 150 mi at a constant speed in 5 hours, at what speed was it traveling?</p> <p>If a bus travels for 5 hours at 40 mph, how far does it travel?</p>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">4 hours</div> $\begin{array}{r} 9 \overline{)36} \end{array}$ Time = Distance ÷ Speed	<div style="border: 1px solid black; padding: 2px; display: inline-block;">30 mph</div> $\begin{array}{r} 5 \overline{)150} \end{array}$ Speed = Distance ÷ Time	$5 \times 40 = \text{200 mi}$ Distance = Speed x Time
<p>A car travels along a road at a steady speed of 60 mph. How far will it travel in 6 hours?</p>	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 50px; height: 20px; background-color: #ccc; margin: 0 auto;"></div>	
<p>A train covers a distance of 480 mi in 8 hours. If it travels at a constant speed, how fast is it traveling?</p>	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 50px; height: 20px; background-color: #ccc; margin: 0 auto;"></div>	
<p>John walks at a steady speed of 3 mph. How long will it take him to travel 24 miles?</p>	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 50px; height: 20px; background-color: #ccc; margin: 0 auto;"></div>	
<div style="display: flex; align-items: center;">  <p>A car travels at a constant speed of 65 mph. How far will it have traveled in 4 hours?</p> </div>	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 50px; height: 20px; background-color: #ccc; margin: 0 auto;"></div>	
<p>Melanie completes a long distance run at an average speed of 6 mph. If it takes her 3 hours, how far did she run?</p>	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	<div style="border: 1px solid black; width: 50px; height: 20px; background-color: #ccc; margin: 0 auto;"></div>	
<p>Sarah cycles 30 mi to her grandmother's house at a steady speed of 10 mph. If she leaves home at 2:00 P.M., what time will she arrive?</p>	<div style="display: flex; align-items: center;">  <div style="border: 1px solid black; width: 100px; height: 40px; margin: 0;"></div> </div>	<div style="border: 1px solid black; width: 50px; height: 20px; background-color: #ccc; margin: 0 auto;"></div>	

20. The graph shows the return journey by car from Haley to Maytic.



- (a) At what time did the car leave Haley?

Answer: _____ [1]

- (b) How far is it from Haley to Maytic?

Answer: _____ km [1]

- (c) How long did the car stop for in total?

Answer: _____ [2]

- (d) At what time did the car return to Haley?

Answer: _____ [1]

- (e) Calculate the total time taken for the entire journey.

Answer: _____ [1]

- (f) Calculate the average speed of the entire journey (include stops).

Answer: _____ k/h [3]

