Journey
This problem gives you the chance to:
- draw and interpret a graph of speed, distance and time

Here is a description of a car journey.

"I left home at 2:00 hours. I traveled for half an hour at forty miles an hour, then for an hour at fifty miles an hour. I had a half hour stop for lunch, then I travelled for two hours at fifty-five miles an hour."

1. Complete this table showing the distances traveled by the end of each stage of my journey.

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<tr>
<td>Distance from home in miles</td>
<td>0</td>
<td>20</td>
<td>70</td>
<td>70</td>
<td>180</td>
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</tbody>
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.
      140 miles
   b. At what time I had traveled 60 miles from home.
      3:15
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?

Explain how you figured it out.

*I added all the numbers in the chart up then divided*

by 5

4. Use your graph to find:
   
a. How far from home I had traveled by 5:15.

   ![](cartoon_image)

   70 miles

   ![](cartoon_image)

   1 ft

b. At what time I had traveled 60 miles from home.

   ![](cartoon_image)

   5:05
Journey

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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?  

50 mph  

Explain how you figured it out.

I knew that \( \frac{1}{4} \) of her time she was going 40 mph, and \( \frac{1}{2} \) of it she was going 55 mph. So then I got 40, 55, 55, and found the mean for that.

4. Use your graph to find:

a. How far from home I had traveled by 5:15.

140 miles

b. At what time I had traveled 60 miles from home.

About 3:20
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<td>0</td>
<td>20</td>
<td>75</td>
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<td>195</td>
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?

Explain how you figured it out.

I added up 40 + 50 + 55 and got 145. Then I divided that by 3 and got 48.5.

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   about 140 miles

   b. At what time I had traveled 60 miles from home.

   3:15
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?  
45 mph  

Explain how you figured it out.  

I divided 180 by 4.  

4. Use your graph to find:  
   a. How far from home I had traveled by 5:15.  
      138.75 miles  
      About 1 1/4  
   b. At what time I had traveled 60 miles from home.
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<td>20</td>
<td>70</td>
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey? 

   Explain how you figured it out.

   You did 180 by 40 you get 45 mph. She traveled 9 hours
   and went 180 miles from home so 45 mph.

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   130 miles

   b. At what time I had traveled 60 miles from home.

   3:10
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<td>Distance from home in miles</td>
<td>0</td>
<td>22.5</td>
<td>77.5</td>
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<td>137.5</td>
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?  

   Explain how you figured it out.
   
   I added all the miles up, then divided it by 4 or how many I added.

4. Use your graph to find:

   a. How far from home I had traveled by 5:15.
   
      90 miles

   b. At what time I had traveled 60 miles from home.

      3:10
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?

Explain how you figured it out.

\[40 + 50 + 50 + 0 + 55 + 55 + 55 + 55 = 360 \div 8 = 45 \checkmark\]

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   \[145 \text{ miles}\]

   \[3:10\]

   b. At what time I had traveled 60 miles from home.
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<td>0</td>
<td>40</td>
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2. Draw a distance-time graph for this journey on the grid below.
3. What is the average speed for the whole journey?

Explain how you figured it out.

I just counted the distance between the miles away from home

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   9.70 \times \text{ miles}

   b. At what time I had traveled 60 miles from home.

   1.20 \times
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<td>40</td>
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3. What is the average speed for the whole journey?

Explain how you figured it out.

I added 40 + 50 + 55, and got 145. I then divided 145 by 3 and got 48.3 but rounded down to 48.

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   about 140 miles

   b. At what time I had traveled 60 miles from home.

   around 2:50
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\[
\frac{\text{miles}}{\text{time}} = \frac{180}{4 \text{ hrs}} = \frac{x}{1}, \quad x = 45
\]

4. Use your graph to find:
   
   a. How far from home I had traveled by 5:15.

   \[\text{approx} \quad 130 \text{ miles}\]

   b. At what time I had traveled 60 miles from home.

   \[\text{approx} \quad 3:20\]
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3. What is the average speed for the whole journey? Explain how you figured it out.

\[ \text{I added} \quad 22.5 \text{ (half of 45)}, \quad 50.0, \quad \text{and} \quad 110.0 \quad \text{ (twice of 55). Then divided it by} \quad 4. \]

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   \[ 14.0 \quad \text{miles} \]

   b. At what time I had traveled 60 miles from home.

   \[ 3:17.50 \]
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3. What is the average speed for the whole journey?

Explain how you figured it out.

He was pretty much going 60 mph the whole time.

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   140 miles

   b. At what time I had traveled 60 miles from home.

   3:17
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Explain how you figured it out.

I added 40 + 50 + 55 = 145 and divided that by 3.

4. Use your graph to find:
   a. How far from home I had traveled by 5:15.

   b. At what time I had traveled 60 miles from home.

   3:15

   137.75 miles
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Explain how you figured it out.

I added $40 + 60 + 0 + 55 = 145 \div 4 = 36.25 \times 0$. 

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140 miles

b. At what time I had traveled 60 miles from home.

3:15