

Lesson 1

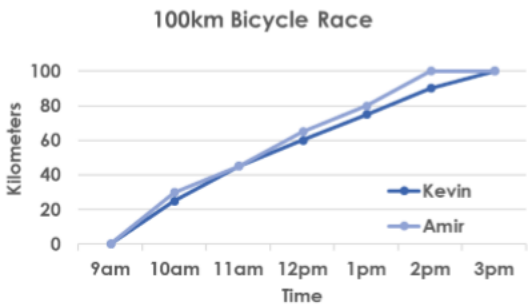
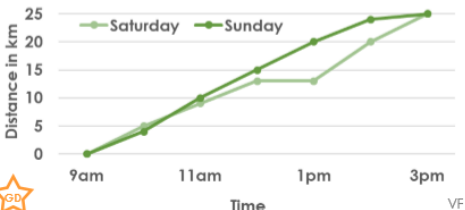
L.O I am learning to read and interpret line graphs.

| | |
|-------------|---|
| All | All of you must complete the fluency section. |
| Most | Most of you will complete the fluency and reasoning sections. |
| Some | Some of you will complete the fluency, reasoning, and problem-solving sections. |

Try your best – it is all we can ask for! 😊

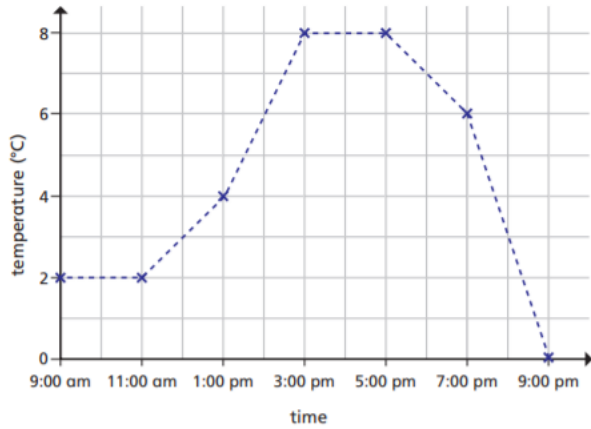
This video may help if you are stuck at any point:
<https://corbettmathsprimary.com/2018/07/19/line-graphs-video/>

Fluency

| Key vocabulary: graph, line, data, group, represent, axis, | Your answer | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|---------------|-------------|-----|---|---|------|----|----|------|----|----|------|----|----|-----|----|----|-----|----|-----|-----|-----|-----|--|
| <p>5a. True or false?</p> <p>Kevin won the bicycle race.</p>  <table border="1"> <caption>100km Bicycle Race Data</caption> <thead> <tr> <th>Time</th> <th>Kevin (km)</th> <th>Amir (km)</th> </tr> </thead> <tbody> <tr><td>9am</td><td>0</td><td>0</td></tr> <tr><td>10am</td><td>25</td><td>30</td></tr> <tr><td>11am</td><td>45</td><td>45</td></tr> <tr><td>12pm</td><td>60</td><td>65</td></tr> <tr><td>1pm</td><td>75</td><td>80</td></tr> <tr><td>2pm</td><td>90</td><td>100</td></tr> <tr><td>3pm</td><td>100</td><td>100</td></tr> </tbody> </table> | Time | Kevin (km) | Amir (km) | 9am | 0 | 0 | 10am | 25 | 30 | 11am | 45 | 45 | 12pm | 60 | 65 | 1pm | 75 | 80 | 2pm | 90 | 100 | 3pm | 100 | 100 | |
| Time | Kevin (km) | Amir (km) | | | | | | | | | | | | | | | | | | | | | | | |
| 9am | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 10am | 25 | 30 | | | | | | | | | | | | | | | | | | | | | | | |
| 11am | 45 | 45 | | | | | | | | | | | | | | | | | | | | | | | |
| 12pm | 60 | 65 | | | | | | | | | | | | | | | | | | | | | | | |
| 1pm | 75 | 80 | | | | | | | | | | | | | | | | | | | | | | | |
| 2pm | 90 | 100 | | | | | | | | | | | | | | | | | | | | | | | |
| 3pm | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | | |
| <p>9a. According to the graph, which statements are correct?</p> <p>A. On Sunday, the hiker walked quickest after 2pm.</p> <p>B. The hiker had walked 5km by 10am on Saturday.</p> <p>C. The hiker stopped for a break at 12pm on Saturday.</p>  <table border="1"> <caption>Hiking Weekend Data</caption> <thead> <tr> <th>Time</th> <th>Saturday (km)</th> <th>Sunday (km)</th> </tr> </thead> <tbody> <tr><td>9am</td><td>0</td><td>0</td></tr> <tr><td>10am</td><td>5</td><td>5</td></tr> <tr><td>11am</td><td>10</td><td>10</td></tr> <tr><td>12pm</td><td>10</td><td>15</td></tr> <tr><td>1pm</td><td>10</td><td>20</td></tr> <tr><td>2pm</td><td>20</td><td>25</td></tr> <tr><td>3pm</td><td>25</td><td>25</td></tr> </tbody> </table> | Time | Saturday (km) | Sunday (km) | 9am | 0 | 0 | 10am | 5 | 5 | 11am | 10 | 10 | 12pm | 10 | 15 | 1pm | 10 | 20 | 2pm | 20 | 25 | 3pm | 25 | 25 | |
| Time | Saturday (km) | Sunday (km) | | | | | | | | | | | | | | | | | | | | | | | |
| 9am | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 10am | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 11am | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 12pm | 10 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| 1pm | 10 | 20 | | | | | | | | | | | | | | | | | | | | | | | |
| 2pm | 20 | 25 | | | | | | | | | | | | | | | | | | | | | | | |
| 3pm | 25 | 25 | | | | | | | | | | | | | | | | | | | | | | | |

Week 4_Maths_Lesson 1

The graph shows the temperature in Birmingham on one day.



- a) What was the temperature at 1:00 pm?
- b) What was the difference in temperature between 11:00 am and 1:00 pm?
- c) Between which times was the temperature increasing?

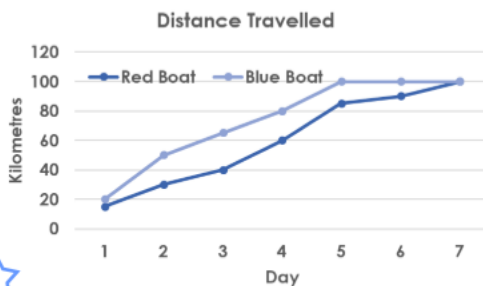
- d) How often was the temperature recorded?

Reasoning

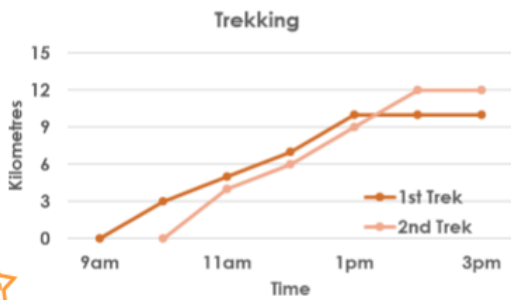
Key vocabulary: graph, line, data, group, represent, axis,

Your answer

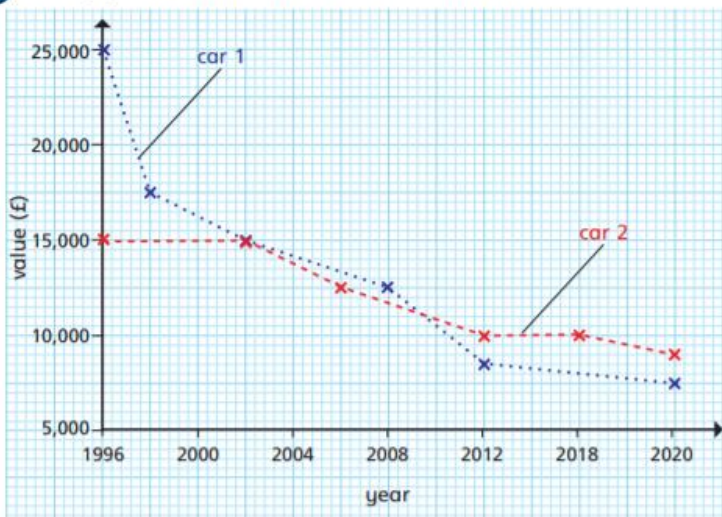
5a. Yulia and Naveed are interpreting a graph. Yulia says, "The blue boat reached their destination on Day 5." Naveed says, "The red boat travelled 100km between Day 6 and Day 7." Who is correct? Explain.



8b. Nancy and Quinn are interpreting a graph.
 Nancy says, "Both treks started at 9am."
 Quinn says, "The 2nd trek was the longest by 2km."
 Who is correct? Explain.



3 The graph shows the values of two cars over time.



- In which year was the recorded value of the cars the same?
- In which two years was the difference in the recorded values of the two cars the same?
- Which car's value decreased the most between 1996 and 2020?
- For approximately how many years was the value of car 2 greater than the value of car 1?

e)

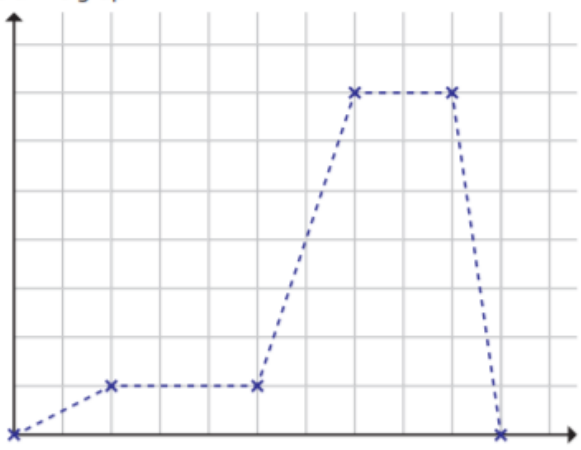


The value of car 2 halved between 1996 and 2012

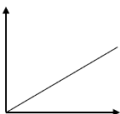
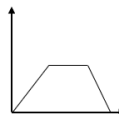
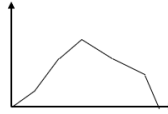
Do you agree with Jack?

Explain your answer.

Problem Solving

| Key vocabulary: graph, line, data, group, represent, axis, | Your answer |
|--|-------------|
| <p>Here is a line graph.</p>  <p>a) What could be happening in the graph? Write a story to match it.</p> | |
| <p>b) What would the x-axis be labelled for your story?</p> | |
| <p>c) What would the y-axis be labelled for your story?</p> | |
| <p>d) Write two questions that you could ask a partner about your story.</p> | |

Extension

| Key vocabulary: graph, line, data, group, represent, axis, | Your answer |
|---|-------------|
| <p>Which graph matches which story?</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: 80px; margin: 10px auto;"> <p>The flight of a remote control toy helicopter.</p> </div> </div> <div style="text-align: center;">  <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: 80px; margin: 10px auto;"> <p>Converting litres to pints.</p> </div> </div> <div style="text-align: center;">  <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; width: 100px; margin: 10px auto;"> <p>Filling a sink with water, waiting for a few minutes, then emptying it.</p> </div> </div> </div> | |