

Reasoning and Problem Solving

Read and Interpret Graphs

Developing

- 1a. B shows her data, because the amount of milk would decrease throughout the week.
- 2a. Anton is correct. The graph does not show that the family stopped hiking after 3 hours.
- 3a. They made £2,300 profit on cards. Sales dropped because Mother's Day happened on Sunday, and not as many people needed to buy cards after Mother's Day.

Expected

- 4a. A shows her data because the twins would gain in height but at slightly different rates. B suggests that the height of one twin decreases over time.
- 5a. Yulia is correct because the blue boat stopped travelling on Day 5. The red boat travelled 100km in total, not in one day.
- 6a. Ian gets the most stickers. Ian read more pages in total (looking at Saturday and Sunday). Uma could have finished her book on Friday.

Greater Depth

- 7a. Various answers, for example:
A = Two runners travelling the same route and over the same terrain but one is faster than the other.
B = The temperature of two cities in the UK recorded from Summer to Autumn.
- 8a. Fazir is correct. The Dragon also goes 20km/hour faster than The Twister, so it is the fastest ride.
- 9a. The shop is closed on Christmas Day. The biggest profit was made in 2018 (£12,200).

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Developing

- 1b. B shows his data, because sales for Easter related gifts would not continue increasing after Easter weekend.
- 2b. Nora is correct. The graph shows that Ronald did not travel between 3 and 4pm.
- 3b. She will drink 3 bottles of water (1 between 12pm – 1pm, 1 between 1pm – 2pm and 1 between 2pm – 3pm). She may start another at 3pm as the temperature is still 24°C at 3pm.

Expected

- 4b. B shows his data because the temperature in London will be getting colder over those months, whilst it will be getting warmer in Sydney.
- 5b. Harriet is correct, that is one reason why Jana travelled a much shorter distance in the same amount of time. Nico has misinterpreted what the graph is showing; the incline of the hike is not related to the angle of the line.
- 6b. Joyce will earn 3 points and Patrick will earn 4 points this half term. Patrick has shown steady improvement in his quizzes, while Joyce's scores keep going down.

Greater Depth

- 7b. Various answers, for example:
A = Two vehicles starting off and travelling the same distance but at different speeds before slowing down again.
B = Two plants growing over the same time period. One plant continues to grow, whilst the other stops getting any taller.
- 8b. Quinn is correct. The second trek started at 10am.
- 9b. Year 5 raised £34 and Year 6 raised £30. With the school's contribution, Year 5 raised £102 and Year 6 raised £90.