

Reasoning and Problem Solving Read and Interpret Line Graphs

Developing

- 1a. The line graph represents Bella's performance.
- 2a. Various answers, for example: Jen has plotted the height of the tree in 2016 incorrectly. The height has dropped to 0 rather than staying the same or increasing.
- 3a. Freddie is not correct because the runner reached their top speed of 14mph at 4 seconds.

Expected

- 4a. Line A represents Kim's performance.
- 5a. Various answers, for example: Liz has plotted Madrid's temperature at 12pm on Sunday incorrectly. The temperature has dropped to 0°C rather than going up as you would expect at this time of day.
- 6a. Peter is not correct because the car reached its top speed of 100mph by 18 seconds.

Greater Depth

- 7a. Line B represents Madagascar.
- 8a. Various answers, for example: Eva has plotted the distance travelled by train 1 after 3 hours incorrectly. The distance has dropped which is impossible.
- 9a. Isaac is incorrect because it took his car 4 seconds to reach its top speed of 115mph. It took Kath's car 3.5 seconds to reach its top speed.

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Developing

- 1b. The line graph represents Greenland.
- 2b. Various answers, for example: Simon has plotted the overall total raised on Friday incorrectly. The total has dropped to £8 which is impossible since he had already raised £12 by Thursday.
- 3b. Lily is not correct because the car's average speed increased from 13mph to 14mph after 4 minutes.

Expected

- 4b. Line B represents Alabama's rainfall.
- 5b. Various answers, for example: Martin has plotted the weight of Holly's dog at the age of 6 months incorrectly. The weight has dropped by 15kg rather than increasing as you would expect.
- 6b. Isla is not correct because she did not run any further than 120 metres between 16 and 18 seconds.

Greater Depth

- 7b. Line B represents Halifax.
- 8b. Various answers, for example: Emilio has plotted the average height for class 2 in term 4 incorrectly. The average height has dropped from 1.32m to 1.31m rather than going up as you would expect.
- 9b. Molly is incorrect because Will travelled further than her in the first 2.5 seconds.