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*Answers and/or discussion are included in the lesson.

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Questions 1–12 (SG pp. 164–168)

- I. A. Time in years
 - **B.** Length in feet
- **2.** A. About $26\frac{1}{2}$ feet or 26 feet 6 inches
 - **B.** Answers will vary.
 - **C.** 24 years
- **3. A.*** Possible response: The points go up and then down and then back up again.
 - **B.*** They tend to go up.
 - **C.*** The length of the jumps is getting longer.
- **4. A.*** Approximately 29 feet 2 inches
 - **B.** It is more than 2 feet longer than any previous jump.
 - C.* Possible response: The best-fit line shows that in 2016 the length of the jump could be longer than Bob Beaman's. But since he jumped, all of the distances have been lower, so it may not happen.

TG • Grade 4 • Unit 5 • Lesson 1 • Answer Key

Answer Key • Lesson 1: Predictions from Graphs

5. A. Time in Years

B. Time in Minutes and Seconds

- 6. 4 minutes and 10 seconds
- **7.** 1971
- **8. A.** Answers will vary. The points form a "bumpy" line.
 - B. Downhill
 - **C.** The winning time for running the mile decreased over the years.
- **9. A.*** The line is drawn to fit the points as closely as possible.
 - **B.*** 3
 - **C.*** 5
 - **D.*** 4
- **10.*** Between 4 minutes and 5 seconds and 4 minutes and 10 seconds
- **II.*** Under 3 minutes and 45 seconds
- 12. A.* Interpolation
 - **B.*** Extrapolation
 - **C.*** Possible response: Interpolation because as you get further from the actual data the predictions are not as close. The time may not be realistic.









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