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

TG • Grade 4 • Unit 13 • Lesson 6 • Answer Key

Student Guide

Questions 1-16 (SG pp. 573-576)

- I. Number of Bites and Mass
- **2. A.*** Number of Bites; I chose the Number of Bites before I started.
 - **B.*** Mass of remaining sandwich in grams; I find the mass when I collect the data.

C.* N and M

- **3.*** size of bite. The biter and type of sandwich are also fixed variables.
- **4.***See Figure 2 in Lesson 6 for a sample data table.
- 5.

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Mass of a Sandwich



Questions 6–11 are answered using the sample graph in Question 5.

Answers will vary based on students' data.

- 6. A.* 72 grams
 - **B.*** The data point is on the vertical axis when the mass is 72 grams.
 - **C.*** (0, 72)
- **7.*** See Figure 3 in Lesson 6 for a sample best-fit line.
- **8.*** About 50 grams.

Answer Key • Lesson 6: Sandwich Mass

- **9. A.*** About 27 grams.
 - **B.*** Answers will vary.
- 10. A.* The number of bites gets larger as you go down the column. There is a doubling pattern for 1, 2, and 4 bites.
 - **B.*** The mass of the sandwich gets smaller as you go down the column.
 - C.* About 8 grams.
 - **D.*** About 8 grams. Possible strategies: If you move one space to the right on the graph, the mass goes down about 8 grams. Or, My sandwich had a mass of 72 grams and it took about 9 bites to finish my whole sandwich. 72 $g \div 9$ bites = 8 grams
- **II. A.*** 10 bites
 - **B.*** Answers will vary.
- **12.** Answers will vary.
- **13. A–B.*** Answers will vary. See the lesson for a discussion.
- 14.* Student stories will vary. Jackie's sandwich had more mass and she took slightly larger bites.
- **15. A–C.*** See Lesson 6 for a description of the graphs.
- 16. Romesh's graph has a curve instead of a straight line. This is because he took large bites of his apple at first, but they got smaller and he never completely finished his apple. The line on the graph never crosses the horizontal axis.







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