

Student Activity Book

Questions 1–2 (SAB pp. 563–564)

Name _____ Date _____

Graph Stories

1.

Time	Height in Feet
12:00	250
12:10	550
12:20	750
12:30	850
12:40	900
12:50	950
1:00	950
1:10	950
1:20	900
1:30	850
1:40	800
1:50	600

Copyright © Kendall Hunt Publishing Company

A. Using the data, tell a story about the height of the balloon during a balloon ride.

B. Do the points form a line? If yes, draw a best-fit line on the graph. If no, describe the shape of the graph.

C. Using this data, can you make a reasonable prediction about the height of the balloon at 12:15? Why or why not?

D. If possible, predict the height of the balloon at 1:45.

Sandwich Mass SAB - Grade 4 • Unit 13 • Lesson 6 563

Student Activity Book - Page 563

1. **A.** Stories will vary. Possible response: The graph shows that the balloon goes up between 12:00 and 1:10 when it reaches 950 ft. The balloon goes up fast at first, then it levels off. Then the balloon starts to come down at about 1:30.
- B.** The points do not form a line, but they do form a pattern. They form a curve where the points go up and then down.
- C.** Yes, if you follow the pattern of the curve, then you can predict that the balloon will be between 400 and 450 ft.
- D.** About 725 ft.
2. **A.** Stories will vary. Possible response: The graph shows that the cost of coffee went up and down between 1992 and 2010. The cost went up until 1997 when it decreased until 2004 when it started increasing again. There are three points that seem out of place, so it may be that something happened to the coffee crop in 1994, 1995, and 1997.

Name _____ Date _____

2.

Year	Cost of 1 lb of Ground Coffee in Dollars
1992	2.30
1993	2.40
1994	2.50
1995	4.40
1996	3.70
1997	3.30
1998	3.50
1999	3.40
2000	3.20
2001	2.90
2002	2.80
2003	2.80
2004	2.70
2005	3.20
2006	3.70
2007	4.40
2008	4.10
2009	3.30
2010	3.10

Copyright © Kendall Hunt Publishing Company

A. Using the data, tell a story about the cost of ground coffee from 1992 to 2010.

B. Do the points form a line? If yes, draw a best-fit line on the graph. If no, describe the shape of the graph.

C. Can you make a reasonable estimate for the cost of a pound of ground coffee in the year 2008? Explain.

D. If possible, predict the cost of 1 pound of ground coffee in the year 2015. Show or tell how you decide on your answer.

564 SAB - Grade 4 • Unit 13 • Lesson 6 Sandwich Mass

Student Activity Book - Page 564

- B.** The points do not form a line. Possible response: The points go up and down like a roller coaster.
- C.** Answers will vary, but students must justify their answers. Possible response: The cost of coffee will probably be between the points for 2007 and 2010, so an estimate of about \$3.90 would make sense. Or, students might say that the cost of coffee went up and down so much, it would be hard to make a reasonable prediction.
- D.** Answers will vary, but students must justify their answers. Students may say that the cost will keep going up as it had since about 2004 and predict that the cost of coffee would be between \$4.20 and \$4.40. Or, students may say that since the cost varied so much, it will be hard to predict the cost in 2015.

Copyright © Kendall Hunt Publishing Company