Student Activity Book

Cost of Brownies (SAB pp. 207–209)
Questions 1–5

1. **A.*** See Figure 4 in the lesson.
   B.* See Figure 5 in the lesson.
   C.* Answers will vary. Possible response:

$$\frac{\$1}{2 \text{ brownies}} = \frac{\$2}{4 \text{ brownies}} = \frac{\$4}{8 \text{ brownies}}$$

   D.* $6. Possible response: Show dotted lines on the graph as shown on the graph in Figure 5.

2. **A.*** See Figure 4 in the lesson.
   B.* See Figure 5 in the lesson.
   C.* Answers will vary. Possible response:

$$\frac{\$3}{8 \text{ brownies}} = \frac{\$6}{16 \text{ brownies}} = \frac{\$9}{24 \text{ brownies}}$$

   D.* $18. Possible response: I saw a doubling pattern in the table. The table shows that 24 brownies cost $9, so 48 brownies will cost $18.

3.* The two lines are straight and start at (0, 0). They go uphill. The one for 50¢ brownies is steeper.

4. $\frac{\$4}{8 \text{ brownies}}$ and $\frac{\$3}{8 \text{ brownies}}$. Possible response: The ratio of $\frac{\$4}{8 \text{ brownies}}$ is larger than the ratio of $\frac{\$3}{8 \text{ brownies}}$.

5.* Possible response: If I want a few brownies, I would spend 50¢ each, but if I want more than six, I would buy them by the box. Six brownies would cost $3.00 if bought individually, so I might as well buy a box of 8 for $3.00.

Name _____ Date _____

Cost of Brownies

The poster for the bake sale says that brownies cost 50¢ each or $3.00 for eight.

1. **A.** Complete the data table to show the cost if brownies are sold for 50¢ each.

Cost of Brownies

Number of Brownies	Cost (in Dollars)
2	$1
4	
8	
16	

B. Use the data table to make a graph that shows Cost vs. Number of Brownies. Scale the horizontal axis by twos and the vertical axis by ones. If the points form a line, draw a line through them.

C. Write three equal ratios that compare the Cost to the Number of Brownies. Write the ratios as fractions.

D. How much will 12 brownies cost? Show or tell how you know.

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Name _____ Date _____

2. **A.** Complete the data table to show the cost if brownies are sold for $3.00 for a box of eight.

Cost of Brownies in a Box

Number of Brownies	Cost (in Dollars)
8	$3
16	
24	

B. Use the data table to make a graph that shows Cost vs. Number of Brownies. Use the same graph paper that you used for Question 1B. If the points form a line, draw a line through them.

C. Write three equal ratios that compare the Cost to the Number of Brownies. Write the ratios as fractions.

D. How much will 48 brownies cost? Show or tell how you know.

E. How do you know your answer to Question 2D is reasonable?

3. Describe the two lines on your graph. How do they compare?

4. Write a ratio for the Cost to the Number of Brownies for each line when the Number of Brownies is 8. How do the two ratios compare?

5. Would you rather buy brownies individually or in boxes of eight? Explain your thinking.

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