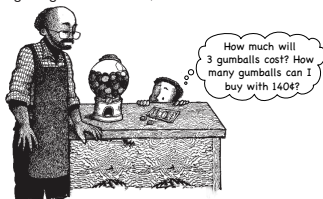


Mr. Green's Giant Gumball Jamboree

Mr. Green sells giant gumballs for 20¢ each.



Solve Questions 1–6. Be prepared to show or tell how you solved each problem.

- How much will 3 gumballs cost?
- How many gumballs can I buy with 140¢?
- How much will 10 gumballs cost?
- How many gumballs can Chris buy with \$2.50?
- Chris has \$1.75 and wants 8 gumballs. Does he have enough money?
- Mr. Green used a list to organize the costs of the gumballs. What are some other tools he could use to organize this data?

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Use the *Buying Giant Gumballs* pages in the *Student Activity Book* to solve problems using patterns in a data table and a graph.

Student Guide

Mr. Green's Giant Gumball Jamboree (SG p. 293)

Questions 1–6

- 60 cents; Possible strategy: $20 \times 3 = 60$
- 7 gumballs; Possible strategy: I know $7 \times 2 = 14$ so $7 \times 20 = 140$.
- 200 cents or \$2; Possible strategy: I double 20 cents $\times 5 = 100$ cents to $20 \times 10 = 200$ cents.
- * 12 gumballs; Possible strategy: I know 10 gumballs cost 200 cents and 2 cost 40 cents. So, I can buy 12 gumballs with \$2.50.
- Chris has enough money for 8 gumballs; Possible strategy: I skipped counted eight times. 20, 40, 60, 80, 100, 120, 140, 160. 8 gumballs cost 160 cents. Chris has enough money for 8 gumballs.
- * graph, data table

Student Activity Book

Buying Giant Gumballs (SAB pp. 393–395)

Questions 1–13

1.*

Cost of Gumballs

G Number of Gumballs	C Cents
1	20
3	60
5	100
7	140
9	180

- 2.* Possible patterns include: The number of gumballs are the odd numbers. The cost of the gumballs always ends in zero. The cost of the gumballs increases by 40¢ for each row.

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Name _____ Date _____

Buying Giant Gumballs

Mr. Green sells giant gumballs for 20¢ each. He decided to use a table and graph to show the cost of the giant gumballs.



1. Complete Mr. Green's Cost of Gumballs table.

Cost of Gumballs

G Number of Gumballs	C Cents
1	
3	
5	
	140
9	

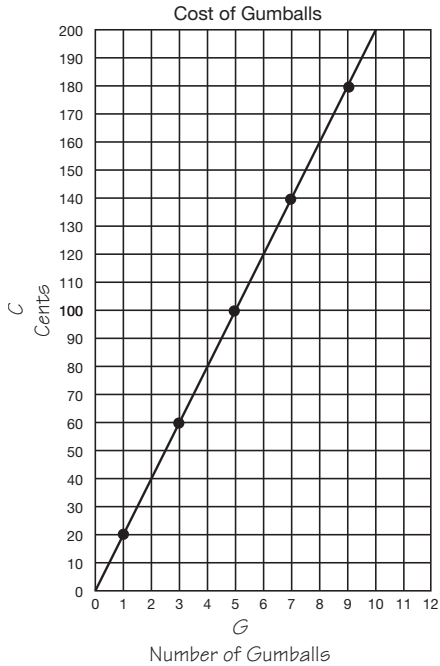
2. What patterns do you see in the data table?

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

3.



4.* Yes. Possible pattern: The dots fall on a line.

5.* See answer for Question 3 for completed graph.

Name _____ Date _____

3. Make a point graph of your data. Use the Cost of Gumballs graph.

- A. Finish numbering the axes.
- B. Label the axes.

Is your graph easy to read? Did you ...
 -write neatly?
 -number the lines, not the spaces?
 -use a ruler to connect the points?



4. Do the points form a pattern? If so, describe the pattern.

5. Can you use a ruler to draw a line through the points? Try it.

Solve Questions 6–9 in two ways. First use your graph, showing your work with dotted lines. Then solve the problem another way to check your answer. Try to use the data table at least once. Show or tell how you found your answers. Write a number sentence and remember to include labels.

- 6. How much will 4 gumballs cost?
- 7. How many gumballs can you buy with \$1.20? (Remember: \$1.20 = 120¢)
- 8. How much will 10 gumballs cost?
- 9. How many gumballs can you buy for \$1.60?



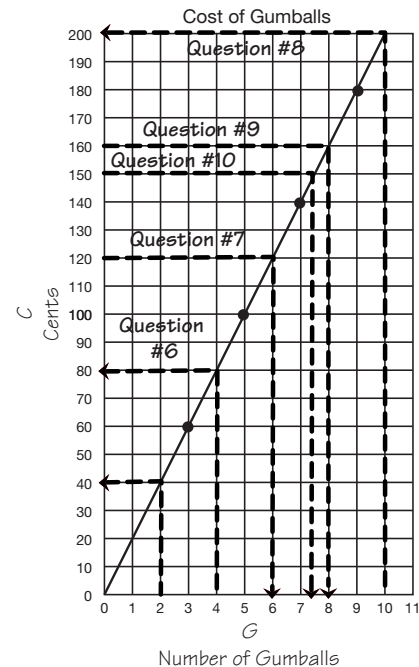
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One of many alternative solutions for each problem is shown below.

- 6.* $80¢$; $4 \times 20¢ = 80¢$
- 7. Using repeated subtraction: $120¢ - 20¢ - 20¢ - 20¢ - 20¢ - 20¢ = 0$, you can buy 6 gumballs.
- 8. $10 \times 20¢ = 200¢ = \$2.00$
- 9.* 8; $160¢ \div 20¢ = 8$

For Questions 6–10, interpolation and extrapolation are shown on the graph.



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

Name _____ Date _____

Show or tell how you solve the problems in Questions 10–12. Remember to include a number sentence.

10. How many gumballs can you buy with \$1.50?
11. How much will 12 gumballs cost?
12. How much will 24 gumballs cost?
13. Look at your solutions to Questions 7, 9 and 10. Choose one and show another way to solve it.

**Buying Giant Gumballs
Feedback Box**

	Expectation	Check In	Comments
Identify and extend multiplicative patterns in tables and graphs [Q# 10–13]	E1		
Represent multiplicative patterns in tables and graphs. [Q# 1–4]	E2		
Use mental math strategies to multiply and divide (e.g., reasoning from known facts, repeated addition and subtraction). [Q# 1, 6–13]	E3		
Use number sentences, tables, and graphs to represent solution strategies for multiplication problems. [Q# 6–13]	E4		
Use number sentences, tables, and graphs to represent solution strategies for division problems including interpreting remainders. [Q# 7, 9–10]	E5		
Make a point graph. [Q# 3–5]	E6		
Read a table or a point graph. [Q# 6–9]	E7		

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Mr. Green's Giant Gumball Jamboree

SAB • Grade 3 • Unit 10 • Lesson 5 395

- 10.* 7 gumballs; 7 gumballs cost \$1.40.
A dime is left over.
- 11.* 240¢; I know $10 + 2 = 12$. 10 gumballs cost 200¢, $10 \times 20¢ = 200¢$.
2 more gumballs $\times 20¢ = 40¢$.
 $200¢ + 40¢ = 240¢$ or \$2.40.
12. 440¢; In Question 11, I found out 12 gumballs cost 240¢. 24 is 12 doubled, so I doubled 240¢.
 $240¢ + 240¢ = 440¢$ or \$4.40.
13. Answers will vary.