

**Student Guide**


**Katie's Job (SG p. 296)**

**Questions 1–4**

1. \$12
2. \$36
3. Possible response: I agree with Natasha's and Peter's solutions. Even though they used different strategies, they both found that Katie earned \$36 in 3 weeks.
- 4.\* Strategies will vary. Possible response: I used repeated addition. I knew that Katie earned 12 each week so I added  $\$12 + \$12 + \$12 = \$36$ .

### Katie's Job

**Discuss**




Katie delivers newspapers once each week. She made this graph to help her keep track of the money she makes.

1. How much money does Katie make in one week?
2. How much money does Katie make in three weeks?


**Natasha**

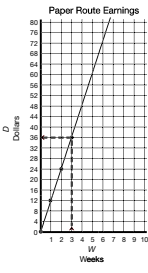
I drew dotted lines on the graph to show how I used it to solve the problem. What patterns do you see?



**Peter**

I made a data table to solve the problem. What patterns do you see?





**Paper Route Earnings**

W Weeks	D Dollars
1	12
2	24
3	36
4	?

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3. Natasha and Peter used different strategies to solve Question 2. Do you agree with each of their solutions? Why or why not?
4. Solve Question 2 using another strategy.

Solve more problems about Katie's job on the *Delivering Newspapers* pages in the *Student Activity Book*.

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

Katie's Job (SG p. 297)

Homework

Questions 1–3

1. A. 10¢

B.

Chocolate Star Sales

Number of Candies Sold	Cost
2	20¢
3	30¢
4	40¢
6	60¢
10	100¢

C. Possible response: Multiply the number of chocolate star candies sold by 10¢ to find the cost.

2. A. 5¢

B.

Sour Candy Sales

Number of Candies Sold	Cost
3	15¢
6	30¢
9	45¢
10	50¢
12	60¢

C. Possible response: Multiply the number of sour candies sold by 5¢ to find the cost.

3. Explanations will vary. Possible response: For each number (3, 6, 10) I found the number of candies on the horizontal axis, then went straight up until I met the solid straight line. I followed that line straight over to the vertical axis to find the cost. I found the same costs on the graph as I listed on the data table, so I knew my answers were correct.

Peppermint Candies

Number of Candies Sold	Cost
2	6¢
4	12¢
7	21¢
3	9¢
6	18¢
10	30¢

Homework

Professor Peabody helped at Mr. Green's candy counter. Mr. Green asked him to record the candy sales on data tables. Professor Peabody's fingers were sticky with chocolate, so some parts of the tables are hard to read.

Chocolate Star Sales

Number of Candies Sold	Cost
2	20¢
3	30¢
4	40¢
6	60¢
10	

1. A. How much does 1 chocolate star cost?

B. Help Professor Peabody fix the table.  
C. If you know the number of chocolate star candies sold, how can you find the cost?

Sour Candy Sales

Number of Candies Sold	Cost
3	15¢
6	30¢
9	45¢
10	
12	

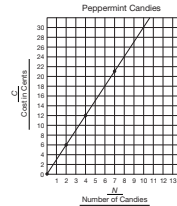
2. A. How much does 1 sour candy cost?

B. Help Professor Peabody fix the table.  
C. If you know the number of sour candies sold, how can you find the cost?

3. Mr. Green graphed the cost of peppermint candies. Look for patterns to complete the table. Tell how you use the graph to check your answers.

Peppermint Candies

Number of Candies Sold	Cost
2	6¢
4	12¢
7	21¢
3	□¢
6	□¢
10	□¢



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Katie's Job

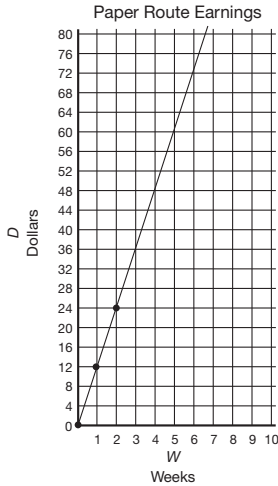
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Name \_\_\_\_\_ Date \_\_\_\_\_

### Delivering Newspapers

Solve Questions 1-4 in two ways. Use the graph and a mental math strategy. Show your work on the graph with dotted lines. Show your mental math strategy with a number sentence and labels.



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### Student Activity Book - Page 413

Name \_\_\_\_\_ Date \_\_\_\_\_

- How much money will Katie make in five weeks?
- If Katie wants to buy a remote-controlled car that costs \$36, how many weeks will she have to save her money?
- How many weeks will she have to work to earn \$50 so she can buy a present for her mother?
- How much money will Katie make in 12 weeks?

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Katie's Job

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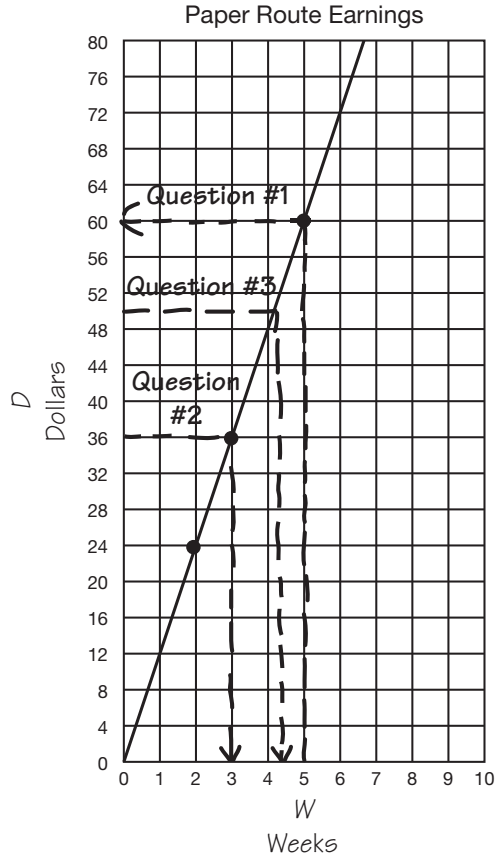
\*Answers and/or discussion are included in the lesson.

## 3 TG • Grade 3 • Unit 10 • Lesson 7 • Answer Key

### Student Activity Book

#### Delivering Newspapers (SAB pp. 413–415) Questions 1–5

For *Questions 1–4* the interpolation and extrapolation are shown in the following graph. One possible alternative solution for each problem is given below.



- \*  $5 \times \$12 = \$60$
- \* 3 weeks;  
 $\$36 - \$12 = \$24$  (1 week)  
 $\$24 - \$12 = \$12$  (2 weeks)  
 $\$12 - \$12 = \$0$  (3 weeks)
- \* 5 weeks. We know from *Question 2* it takes 3 weeks to earn \$36. Since  $\$36 + \$12 = \$48$ , it will take 4 weeks to earn \$48. It will take 5 weeks to earn \$60 (*Question 1*). Katie will have \$10 left over. Students might also say that the answer is between 4 and 5 weeks.
- \* \$144; extrapolate and find that Katie can earn \$72 in 6 weeks. Katie can earn twice that amount in 12 weeks;  $\$72 + \$72 = \$144$ .

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5.

Lemonade Sales

Number of Cups Sold	Money Earned
2	50¢
4	100¢
3	75¢
6	150¢
<b>1</b>	25¢
<b>5</b>	125¢
10	<b>250¢</b>

- A.\* 25¢
- B.\* 5 cups
- C.\* 250¢
- D.\* Possible response: If you know the number of cups sold, add 25¢ for each cup. Or, 25¢ times the number of cups sold will tell you the money earned. (Students' answers should communicate that they understand the relationship between the numbers across the rows.)

Name \_\_\_\_\_ Date \_\_\_\_\_

5. Katie had a lemonade stand to earn more money. Every time she sold cups of lemonade to a group of customers, she recorded her sales on a table. Her brother helped her at the stand, but forgot to record some of the sales information. Look for patterns in the table to help you answer the questions and fill in the missing information.

Lemonade Sales

Number of Cups Sold	Money Earned
2	50¢
4	100¢
3	75¢
6	150¢
	25¢
	125¢
10	

- A. How much does Katie charge for one glass of lemonade?
- B. Katie's neighbor spends 125¢ on lemonade. How many cups did he buy?
- C. Katie's brother sold 10 glasses of lemonade to some kids playing soccer. How much money was earned?
- D. If you know the number of cups sold, how can you find the money earned?

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