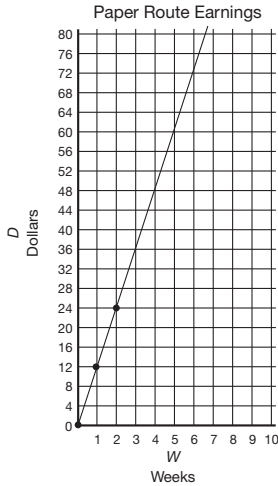Name _____ Date _____

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.

Paper Route Earnings

D
Dollars

W
Weeks

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Name _____ Date _____

1. How much money will Katie make in five weeks?

2. If Katie wants to buy a remote-controlled car that costs $36, how many weeks will she have to save her money?

3. How many weeks will she have to work to earn $50 so she can buy a present for her mother?

4. How much money will Katie make in 12 weeks?

Label your numbers.

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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.

Paper Route Earnings

Question #1

Question #3

Question #2

D
Dollars

W
Weeks
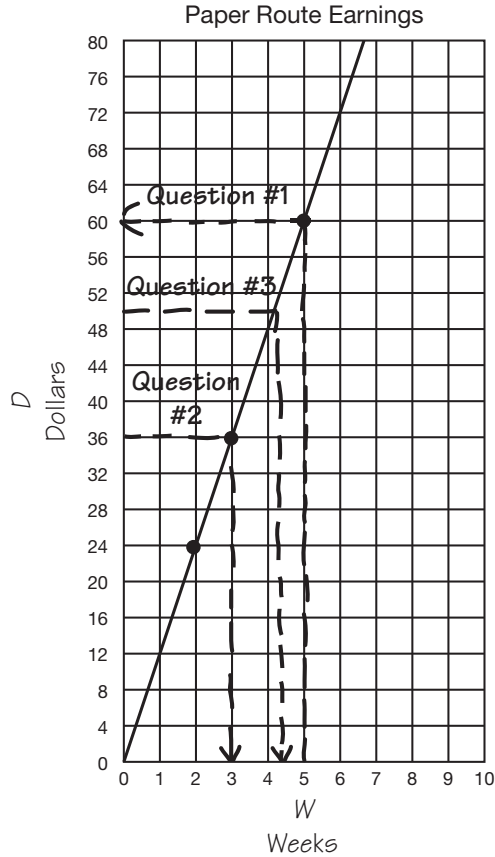
1.* $5 \times \$12 = \$60$

2.* 3 weeks;

$\$36 - \$12 = \$24$ (1 week)

$\$24 - \$12 = \$12$ (2 weeks)

$\$12 - \$12 = \$0$ (3 weeks)

3.* 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.

4.* $144; extrapolate and find that Katie can earn $72 in 6 weeks. Katie can earn twice that amount in 12 weeks; $\$72 + \$72 = \$144$.

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

5.

Lemonade Sales

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

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