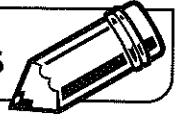


**LESSON**  
**8•10****Fraction and Percent of a Number Methods**

1. Alton collected 252 marbles but lost  $\frac{4}{7}$  of them on his way to school. When he arrived at school, how many marbles did Alton have left? \_\_\_\_\_

Explain how you found your answer.

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2. Circle the letter of each method below that you could use to solve Problem 1.

- a. You can find  $\frac{4}{7}$  of 252 by multiplying  $252 * \frac{4}{7}$  and simplifying.
- b. You can find  $\frac{4}{7}$  of 252 by dividing 252 by 4 and multiplying the result by 7.
- c. You can find the unit fraction by dividing 252 by 7, and then find  $\frac{4}{7}$  of 252 by multiplying the unit fraction value by 4.

3. For any method you did *not* circle, explain why it will not work.

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4. The regular price for in-line skates is \$125 at a local store. The store was having a promotion: Buy one pair of in-line skates and get a second pair for 75% of the regular price. How much would a second pair of in-line skates cost? \_\_\_\_\_

Explain how you found your answer.

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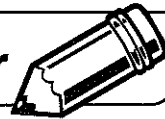
5. Circle the letter of each method below that you could use to solve Problem 4.

- a. You can rename 75% as a fraction and then multiply \$125 by the fraction to find 75% of \$125.
- b. You can find the cost of the second pair by multiplying \$125 by  $\frac{1}{4}$  and subtracting the product from \$125.
- c. You can find the cost of the second pair by dividing \$125 by 4.

6. For any method you did *not* circle, explain why it will not work.

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**LESSON**  
**8•10**
**Fraction of and Percent of a Number**


George practiced finding the fraction of and the percent of a number. He completed the tables below. George thinks there is something wrong with his answers, but he doesn't know how to fix it.

$\frac{1}{4}$ of 12 =	3
$\frac{2}{4}$ of 12 =	6
$\frac{3}{4}$ of 12 =	12
$\frac{4}{4}$ of 12 =	24

20% of 40 =	6
40% of 40 =	12
60% of 40 =	18
80% of 40 =	24
100% of 40 =	30

1. Study George's tables and then explain how he should correct his work.

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2. Write the correct answers.

$\frac{1}{4}$ of 12 =	
$\frac{2}{4}$ of 12 =	
$\frac{3}{4}$ of 12 =	
$\frac{4}{4}$ of 12 =	

20% of 40 =	
40% of 40 =	
60% of 40 =	
80% of 40 =	
100% of 40 =	