

Name \_\_\_\_\_

Date \_\_\_\_\_

### Algebra Concepts – Assignment 2-3

**Find the value of the ? or x. Then answer the question in a complete sentence.**

1. Juliette bought 3 pairs of jeans. She used a \$15 coupon and paid \$102. What is the price of 1 pair of jeans?

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|--|--|--|
|  |  |  |
|--|--|--|

|-----\$102-----|----15----|

2. Logan bought 4 books of raffle tickets and 5 extra tickets. If Logan has 35 tickets, how many were in each book?

|-----37-----|

|  |  |  |  |   |
|--|--|--|--|---|
|  |  |  |  | 5 |
|--|--|--|--|---|

3. Dylan rode his bike for 2 hours and walked 3 miles. The total distance that Dylan traveled was 30 miles. What was Dylan's average speed for the 2-hour bike ride?

|-----30-----|

|  |  |   |
|--|--|---|
|  |  | 3 |
|--|--|---|

**Find the value of x.**

4.

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| x |  |  |  |  |  |
|---|--|--|--|--|--|

$$| \text{-----} 18 \text{-----} | \text{-----} 12 \text{-----} |$$

5.

$$| \text{-----} 23 \text{-----} |$$

|   |  |  |
|---|--|--|
| x |  |  |
|---|--|--|

6.

$$| \text{-----} 12.8 \text{-----} |$$

|   |  |  |  |
|---|--|--|--|
| x |  |  |  |
|---|--|--|--|

7.  $| \text{-----} 32 \text{-----} |$

|  |  |  |  |   |
|--|--|--|--|---|
|  |  |  |  | 5 |
|--|--|--|--|---|

**Build your own model to solve each problem. Answer each question with a complete sentence.**

- Brandon went to Dunkin Donuts to buy a Bacon, Egg and Cheese on a Croissant Sandwich and 4 muffins. The Bacon, Egg and Cheese sandwich cost him \$2.79. The total bill was \$7.95. How much does one muffin cost?
- Dawson is raising \$795 to buy a used car. He has four months to raise the money and he already has \$75 saved. How much does Dawson need to save each month in order to reach her goal?

## Review

10. Sarah has \$400 in the bank. Each week during the school year, Sarah withdraws \$20 for lunch money. The amount of money in her account is a function of the number of weeks. **Sketch a graph** of the function and label it with one of the following.

Linear Increasing

Linear Decreasing

Exponential Increasing

Exponential Decreasing

Quadratic Opens Up

Quadratic Opens Down

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