**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?

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

|--------------------------------------$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 |  |  |  |  |  |

|-----------------------------18----------------------|-----------------12---------------|

5.

 |--------------------------------23------------------------------------|

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

6.

|-------------------------------------12.8-------------------------------------|

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

7. |---------------------------------32-----------------------------------------|

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

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

8. 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?

9. 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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