Name _____ Class _____ Date _____

Homework 3-3 C

Write an Equation

Which equation represents the following situation?

1. Terrance has 20 DVDs in his collection, which is four times as many DVDs as Doug has. How many DVDs, d, does Doug have?

A) $4d = 20$ B) $20 - d = 4$ C) $d \div 4 = 20$ D) $4 + d = 20$

2. Dean ate 11 cookies after dinner, which was 3 more than twice as many cookies as Sara ate. How many cookies, c, did Sara eat?

A) $2c + 11 = 3$ B) $2c - 3 = 11$ C) $2c + 3 = 11$ D) $2c - 11 = 3$

3. Emma took $75 to the mall. She came home with $18. How much money, m, did Emma spend at the mall?

A) $m - 18 = 75$ B) $18 - m = 75$ C) $m - 75 = 18$ D) $75 - m = 18$

Solve the equation that represents each situation. Make sure you answer the question that is asked **in a sentence.**

4) Mari buys 4 books for the same price, and also buys a video for $15. If her total bill was $107, how much did each book cost? Let "b" represent the cost of one book.

Use the equation: $4b + 15 = 107$

Answer: _____

5) Anthony purchases 8 CDs at the same price, and a DVD for $21.50. If his total was $125.42, how much did each CD cost? Let "c" represent the cost of one CD.

Use the equation: $8c + 21.50 = 125.42$

Answer: _____

Write an equation. Then solve. Show your work.

1. Bill purchased 4 pens for $3.32, including $.16 sales tax. Find the cost of 1 pen.

Let _____ = _____

2. Arnold had $1.70 in dimes and quarters. He had 3 more dimes than quarters. How many of each coin did he have?

Let _____ = _____

3. A baby weighed 3.2 kg at birth. She gained 0.17 kg per week. How old was she when she weighed 5.75 kg?

Let _____ = _____

4. In the parking lot at a truck stop there were 6 more cars than 18-wheel trucks. There were 134 wheels in the parking lot. How many cars and trucks were there?

Let _____ = _____

5. The product of 6 and 3 more than k is 48.

Let _____ = _____

6. A bottle and a cap together cost $1.10. The bottle costs $1 more than the cap. How much does each cost?

Let _____ = _____