Word Problems – Worksheet #2

Please choose the correct representation for each situation.

1) Sam buys 4 CDs for the same price, and also a cassette tape for $8.50. His total bill was $64.46. Use “x” to represent the cost of one CD.

A) \(4x - 8.50 = 64.46\)
B) \(4 + 8.50x = 64.46\)
C) \(64.46 + 8.50 = 4x\)
D) \(4x + 8.50 = 64.46\)

2) A shoebox with a pair of shoes in it weighs 2.4 Kg. The box weighs 0.3 Kg when empty. Use “y” to represent the weight of one shoe.

A) \(2y - 0.3 = 2.4\)
B) \(2y = 0.3\)
C) \(2y + 0.3 = 2.4\)
D) \(2(y + 2.4) = 0.3\)

3) Andy needs to have sold 100 magazines by the end of the week to get a prize. He’s only sold 42 so far, and there are only 3 days left. Use “m” to represent the number of magazines he should sell daily.

A) \(100 + 42m < 3\)
B) \(42 + 3m \geq 100\)
C) \(3m - 100 = 42\)

4) Anthony buys 8 books for the same price, and also a video for $15. His total bill was $107. Use “b” to represent the cost of one book.

A) \(15 - 107 = 8b\)
B) \(15 + 8b = 107\)
C) \(8b = 107\)

5) Jay has $130 to spend. He gets a game system for $19 and games cost $7 each. Use “g” to represent how many games he can buy.

A) \(130 - 7 = 19\)
B) \(7g - 19 > 130\)
C) \(130 - 19g \leq 7\)
D) \(7g + 19 \leq 130\)

6) Jill has $125 in her account, and spends $18 a week on food. If she falls below $20 in her account, she must pay a penalty. Use “k” to represent how many weeks until she pays the penalty.

A) \(125 + 18k = 20\)
B) \(125 - 18k \geq 20\)
C) \(20k + 18k > 125k\)
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For each situation, write a word model AND a math sentence.

7) 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?

Word Model: \[
\text{cost of CDs PLUS cost of DVD EQUALS total cost}
\]

Math Sentence: \[8c + 21.50 = 125.42\]

8) Derek wants to buy a new TV that costs $150. He currently has $17 in his piggy bank, but plans to add $8 to it each week. How many weeks until he has enough money to buy the TV?

Word Model: \[
\text{current money PLUS additional money AT LEAST cost of TV}
\]

Math Sentence: \[17 + 8w \geq 150\]

9) Judy currently weighs 160 lbs., but intends to go on a diet that promises to make her lost 4 lbs. each month. How many months until she is under her target weight of 125 lbs.?

Word Model: \[
\text{current weight MINUS lost weight UNDER target weight}
\]

Math Sentence: \[160 - 4m < 125\]

10) A carton filled with 8 boxes of chocolates weighs 3.1 Kg. The carton, when empty, weighs 0.3 Kg. How much does each box of chocolates weigh?

Word Model: \[
\text{empty carton weight PLUS weight of boxes EQUALS total weight}
\]

Math Sentence: \[0.3 + 8b = 3.1\]