Word Problems – Worksheet #3

Please choose the correct representation for each situation.

1) Lilly buys a few cassette tapes from the clearance bin marked “$2.50 each”. She also buys a brand new CD for $15.99. Her total was $43.49. Use “c” to represent the number of cassette tapes.

A 15.99 + 2.50 = 43.49  
B 2.50c + 15.99 = 43.49  
C 15.99c − 43.49 = 2.50  
D 2.50c = 43.49

2) Hermit stands 38 inches tall. The sign on the fence says you must be at least 50 inches tall to ride the go-carts. Hermit will grow approximately 5 inches each year. Use “y” to represent how many years until he can ride.

A 38y + 5 = 50  
B 50 − 38 = 12  
C 38 + 5y ≥ 50  
D 5y ≤ 50 − 38

3) Martha currently weighs 342 pounds. She plans on losing 10 pounds each month. Her goal is to be no heavier than 220 pounds. Use “m” to represent the number of months until she reaches her goal.

A 342 + 10m ≥ 220  
B 10m + 220 < 342  
C 342 − 10 < 220m  
D 342 − 10m ≤ 220

4) A crate containing 4 boxes of gummi worms weighs 8.4 Kg. The crate, when empty, weighs 5.2 Kg. Use “g” to represent the weight of one box.

A 4(g + 8.4) = 5.2  
B 4g + 5.2 = 8.4  
C 4g = 8.4  
D 5.2 + 8.4 = 4g
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Write a word model AND a math sentence AND solve it.

5) Kip buys 8 bouquets of flowers (for the same price) and a shovel for $14.65. If his total bill was $186.65, how much was each bouquet of flowers?

Word Model: \[
\text{cost of bouquets PLUS cost of shovel EQUALS total cost}
\]

Math Sentence: \[
8f + 14.65 = 186.65
\]

\[
\begin{align*}
8f & = 172.00 \\
8 & \quad 8
\end{align*}
\]

\[
f = 21.50
\]

6) Mr. T currently weighs 250 pounds. He is going on a special diet that will help him lose 8 pounds each week. How many weeks until he goes below the 200 pound mark?

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

Math Sentence: \[
250 - 8w < 200
\]

\[
\begin{align*}
-250 & \quad -250 \\
-8w & < -50 \\
\frac{-8}{-8} & \quad \frac{-50}{-8}
\end{align*}
\]

\[
w > 6.25
\]

Answer: 7 weeks

7) Mack wants to purchase a new stereo system for his car. The system costs $1150. Mack has $420 saved already, and plans on mowing lawns to earn the rest. If Mack gets paid $25 for every lawn he mows, how many lawns must he mow to earn enough money for the stereo?

Word Model: \[
\text{saved money PLUS earned money AT LEAST cost of stereo}
\]

Math Sentence: \[
420 + 25m ≥ 1150
\]

\[
\begin{align*}
-420 & \quad -420 \\
25m & ≥ 730 \\
\frac{25m}{25} & \quad \frac{730}{25}
\end{align*}
\]

\[
m ≥ 29.2
\]

Answer: 30 lawns