DAY 1
September 02, 2015

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"I love Math"

work paper

label problems
Section 2.2 Formulas Functions - Question #1:
Solving for a variable in terms of other variables using addition or subtraction

Solve for $x$.

$x - 6 = y$

\[ x = y + 6 \]

Solve for $T$.

$T \cdot A = \frac{4}{T}$

\[ T = 4 / A \]
4. A Web music store offers two versions of a popular song. The size of the standard version is 2.2 megabytes (MB). The size of the high-quality version is 4.8 MB. Yesterday, there were 1050 downloads of the song, for a total download size of 4000 MB. How many downloads of the high-quality version were there?

\[ x = 2.2 \text{ down} \]

\[ 1050 - x = 4.8 \text{ down} \]

mega downloads

2.2x

(4.8)(1050 - x)

\[ 2.2x + 4.8(1050 - x) = 4000 \]

2

1. The sum of three numbers is 90. The first number is 6 less than the second. The third number is 4 times the second. What are the numbers?

\[ n + n - 6 + 4n \]

\[ 6n = 96 \]

\[ n = 16 \]

\[ n = 16, 10 \]

n = second
3. Dan has a job transporting soft drinks by truck. His truck is filled with cans that weigh 14 ounces each and bottles that weigh 70 ounces each. There is a combined total of 940 cans and bottles in his truck.

Let \( x \) be the number of 14-ounce cans in his truck. Write an expression for the combined total weight (in ounces) of the cans and bottles in his truck.

\[
x = \text{no of 14 oz bottles}
\]

\[
65800 - 70x + 14x
\]

\[
65800 - 56x
\]