

Examples. Create PROPORTIONS. Solve.

- a) You earn \$15 every hour working @ Dollarama. How much \$ did you make after 8 hours?

$$\begin{array}{rcl} 1 \text{ hour} & \xrightarrow{\times 8} & 8 \text{ hours} \\ \$15 & \xrightarrow{\times 8} & ? \$120 \end{array}$$
$$\begin{array}{rcl} & & +4 \\ & & 15 \\ & \times & 8 \\ \hline & & 120 \end{array}$$

final answer: You earned \$120 after working 8 hours.

- b) MST drives 100 km each hour then stops to rest and have a diet coke. How many km has she travelled after 9 hours?

$$\begin{array}{rcl} 1 \text{ hour} & \xrightarrow{\times 9} & 9 \text{ hours} \\ 100 \text{ km} & \xrightarrow{\times 9} & ? \text{ km} \end{array}$$

final answer: MST travelled 900 km in 9 hours.

- c) MST types 85 words a minute. How many words has she typed in 15 minutes?

$$\begin{array}{rcl} 1 \text{ minute} & \xrightarrow{\times 15} & 15 \text{ min} \\ 85 \text{ words} & \xrightarrow{\times 15} & ? \text{ words} \end{array}$$
$$\begin{array}{rcl} & & +2 \\ & & 85 \\ & \times & 15 \\ \hline & & 425 \end{array}$$

final answer: MST typed 1275 words in 15 minutes.

$$\begin{array}{rcl} & & +85 \\ & & 1275 \end{array}$$

d) MST's plant grows 4 mm per week. How tall is her plant after 26 weeks?

$$\begin{array}{r}
 \text{1 week} \quad \underline{\times 26} \quad \text{26 weeks} \\
 4 \text{ mm} \quad \underline{\times 26} \quad ? \quad 104 \text{ mm}
 \end{array}
 \begin{array}{r}
 +2 \\
 26 \\
 \times 4 \\
 \hline
 104
 \end{array}$$

final answer: The plant is 104 mm tall after 26 weeks.

e) You run 42 km every week. How many km have you run after 39 weeks?

$$\begin{array}{r}
 \text{1 week} \quad \underline{\times 39} \quad \text{39 weeks} \\
 42 \text{ km} \quad \underline{\times 39} \quad ? \quad 1638 \text{ km}
 \end{array}
 \begin{array}{r}
 +1 \\
 42 \\
 \times 39 \\
 +1378 \\
 \hline
 +126 \\
 \hline
 1638
 \end{array}$$

final answer: You ran 1638 km in 39 weeks.

f) You complete 44 jumping jacks per hour. After 12 hours how many jumping jacks have you done?

$$\begin{array}{r}
 \text{1 hour} \quad \underline{\times 12} \quad \text{12 hours} \\
 44 \text{ jumps} \quad ? \quad 528
 \end{array}
 \begin{array}{r}
 44 \\
 \times 12 \\
 +188 \\
 +44 \\
 \hline
 528
 \end{array}$$

final answer: You did 528 jumping jacks.

g) There was a lot of rain! 3 mm of rain fell an hour. How much rain fell after 23 hours of non-stop rain?

$$\begin{array}{r}
 \text{1 hour} \quad \underline{\times 23} \quad \text{23 hours} \\
 3 \text{ mm} \quad \underline{\times 23} \quad ? \quad 69 \text{ mm}
 \end{array}
 \begin{array}{r}
 23 \\
 \times 3 \\
 \hline
 69
 \end{array}$$

final answer: 69 mm of rain fell!