

Lesson 5: Writing Equations & Expressions

Examples:

1. Write an expression to represent:

a) 2 times a number $2x$

b) 5 more than 4 times a number $4x+5$

c) One third a number less 7 $\frac{1}{3}x-7$

2. Bill rents a truck for \$25 plus \$0.99 per kilometre driven.

a) Write an equation to find the cost, C , for n kilometre driven.

$$C = 0.99n + 25$$

b) What is the cost if Bill drives 15 km?
↑ $n = 15$

$$\begin{aligned} C &= 0.99(15) + 25 \\ &= \$39.85 \end{aligned}$$

c) How many km did Bill drive if he paid \$48.98 total?
↑ cost = 48.98

$$\begin{aligned} 48.98 &= 0.99n + 25 \\ 48.98 - 25 &= 0.99n \\ 23.98 &= 0.99n \\ 24.2 &= n \end{aligned}$$

