

Lesson 9-3 → Writing & Solving Two-step Equation Word Problems

Usually one step is Addition or Subtraction
one step is Multiplication or Division

For Example

A music download service charges a fee of r dollars to join and each song download is then \$1.50. You join and download n number of songs for \$38.

Write the equation.

$$1.5n + r = 38$$

How many songs did you download if the initial fee was \$12.50?

$$\begin{array}{r} 1.5n + 12.5 = 38 \\ -12.5 \quad -12.5 \end{array}$$

$$\frac{1.5n}{1.5} = \frac{25.5}{1.5}$$

$$n = 17$$

You downloaded 17 songs