

Situation Equation vs. Solution Equation

Here are some definitions we will be learning after break:

A **situation equation** is an equation that represents the situation of the story problem.

A **solution equation** is an equation that shows the operation needed to solve for the variable.

Variable is a letter used to represent the unknown number.

Directions: Write a situation equation, solution equation, and labeled answer for every question. The first one is done for you as an example. Please read carefully, all 4 operations will be used within these problems.

1. The area of a living room is 152.4 ft^2 . If the width is 12 feet, what is the length?

Situation equation $\rightarrow 152.4 = 12 \times l$

Solution equation $\rightarrow 152.4 \div 12 = l$

Answer $\rightarrow l = 12.7 \text{ feet}$

2. Tracy had \$180.75 in her piggy bank. She bought a new pair of shoes that cost \$78.80. How much money is left in her piggy bank?

3. Steve and Braden were playing a video game. Steve scored 2,500.5 points which is 5 times as many points as Rocco scored. How many points did Rocco score?

4. Stacey's dog weighs 72.4 pounds. Lizzy's cat weighs 9 pounds. How many times as many pounds does Stacey's dog weigh as Lizzy's cat weighs?

5. Laura has 1,263.9 cm of fabric, and that is 3 times as much fabric as she needs to make some curtains. How many centimeters of fabric does Laura need to make the curtains?

6. The length of a room is 12.85 feet and the width is 17.21 feet. What is the area of the room?

7. Randy has 98 ounces of orange juice in his house. Him and his 4 friends decided to split up the juice evenly. How many ounces does each friend get?