Cool Down

Lesson 4: Equations and Their Solutions

Cool Down: Box of T-shirts

An empty shipping box weighs 250 grams. The box is then filled with T-shirts. Each T-shirt weighs 132.5 grams.

The equation $W = 250 + 132.5T$ represents the relationship between the quantities in this situation, where W is the weight, in grams, of the filled box and T the number of shirts in the box.

1. Name two possible solutions to the equation $W = 250 + 132.5T$. What do the solutions mean in this situation?

2. Consider the equation $2,900 = 250 + 132.50T$. In this situation, what does the solution to this equation tell us?