Algebra 1   2.1
Translate sentences into equations
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variable
formula
sum
product
difference
quotient
equals

activity: I have who has

activ: I have/ who has

A rule for the relationship between certain quantities is called a **formula**. These equations use variables to represent numbers and form general rules.

Example 3 Write a Formula

GEOMETRY Translate the sentence into a formula.

The area of a triangle equals the product of $\frac{1}{2}$ the length of the base and the height.

$$A = \frac{1}{2} \cdot b \cdot h$$

Example 4 Translate Equations into Sentences

Translate each equation into a sentence.

a. $6z - 15 = 45$

6 and z

b. $y^2 + 3x = w$

4A. $15 = 25u^2 + 2$

4B. $\frac{3}{2}r - t^3 = 132$