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.

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3. GEOMETRY Translate the sentence into a formula. In a right triangle, the square of the measure of the hypotenuse *c* is equal to the sum of the squares of the measures of the legs, *a* and *b*.

$$(c)^{2} = a^{2} + b^{2}$$

Example 4 Translate Equations into Sentences



Translate each equation into a sentence.

a.
$$6z-15=45$$

eguels

is

the same as

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

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

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

When given a set of information, you can create a problem that relates a story.

Example 5 Write a Problem



Write a problem based on the given information.

t= the time that Maxine drove in each turn; t+4= the time that Tia drove in each turn; 2t+(t+4)=28