

Algebra 1 11/29

**Warm Up
AIMS Web
Practice #2**

2.1 Writing Equations

I can create equations and use them to solve problems

Ex. 1 Translate each sentence into an equation

A. Two plus the quotient of a number and 8 is the same as 16

$$\frac{x}{8} + 2 = 16$$

~~$$x = 8$$~~

B. Twenty-seven times k is h squared decreased by 9

$$27k = h^2 - 9$$

I can create equations and use them to solve problems

Ex. 2 There are 50 members in the North Carolina Senate. This is 70 fewer than the number in the North Carolina House of Representatives. How many members are in the North Carolina House of Representatives?

$$X = \# \text{ of Reps}$$

$$\begin{array}{r} X - 70 = 50 \\ + 70 \quad + 70 \\ \hline \end{array}$$

$$X = 120$$

There are 120 Reps in the NC House of Reps.

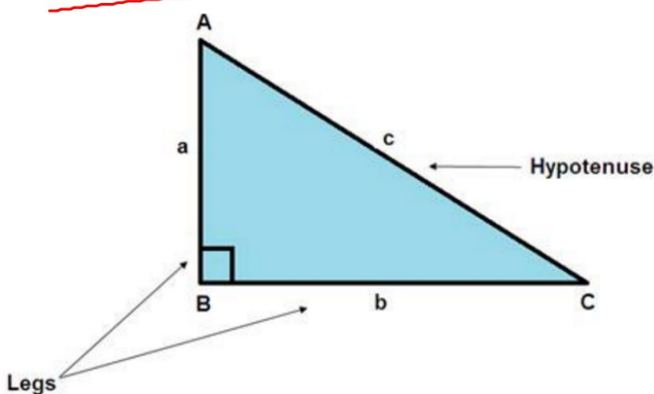
I can create equations and use them to solve problems

Formula:

A rule for the relationship between certain quantities

Ex. 3 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



$$c^2 = a^2 + b^2$$

Pythagorean
Theorem

I can create equations and use them to solve problems

Ex. 4 Translate each equation into a sentence

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

Fifteen equals 25 u squared plus two

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

Three halves of r minus t cubed is 132

I can create equations and use them to solve problems

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