

## Algebra Practice Worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Activity 1: Equation Translation

Directions: Translate each sentence into an equation.

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

Equation: \_\_\_\_\_

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

Equation: \_\_\_\_\_

### Activity 2: Word Problem Solving

Directions: Read the problem and write an equation to solve it. Then find the answer.

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 there in the North Carolina House of Representatives?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

### Activity 3: Formula Translation

Directions: Translate the sentence into a math 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  $b$ .

Formula: \_\_\_\_\_

#### Activity 4: Verbal Sentences from Equations

Directions: Write a sentence that describes each equation in words.

1.  $x - 7 = 15$

Sentence: \_\_\_\_\_

2.  $4y = 28$

Sentence: \_\_\_\_\_

3.  $m + 12 = 30$

Sentence: \_\_\_\_\_

#### Activity 5: Writing a Word Problem

Directions: Use the given information to write a word problem.

Given:

-  $p$  = price of jeans

-  $0.2p$  = discount

-  $p - 0.2p = 31.20$

Write your word problem below:

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