Math 9 Lesson 3-6: Making Equations & Algebra

What are all the words you can think of that could represent:

+

-

×

÷

=

Make an equation for each of the situations given.

The sum of a number and 7 is 11

5 less than a number is 22

A fourth of as number is 10

3 less than 5 times a number is 17

8 more than 2 times a number is 22

7 times the sum of a number and 5 is 49

The sum of a number and 5 times the same number is 36

Solving Equations

When given an algebra problem the goal is to solve for the missing variable. To do this you will follow the following 5 steps. To move one thing from one side of the equation to the other you must do the **OPPOSITE OF WHAT IS BEING DONE**.

is the opposite of is the opposite of

1. Simplify both sides of the equation
2. Add or subtract to get all the variables on one side of the equation
3. Add or subtract to get all the constants on the other side
4. Multiply or divide to get the variable by itself
5. Check

Solve for the variable then check

x+7=12

-16=a+3

Homework P273 #5-9, 11, 13, 14

For number 5 and 6 just solve