

Name _____

Date _____

Mr. Tallman

Do Now

Solve the following equations. Don't Check.

1) $x - 7 = -13$

2) $14x = -56$

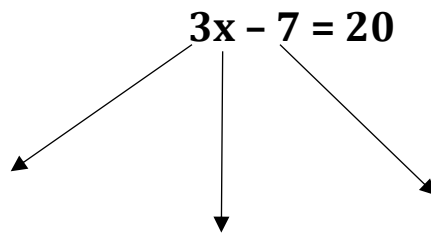
3) $\frac{x}{4} = -10$

4) $-17x = -204$

Lesson #50 - Solving Two Step Equations

Two Step Equations are equations that _____

Parts of a two step equation:



- **Variable:** _____
- **Coefficient:** _____
- **Constant:** _____

Example 1) Identify the variable, coefficient, and constant in the following equation: $6x - 8 = 22$

Variable: _____

Coefficient: _____

Constant: _____

Example 2) Solve and check: $8x + 7 = 31$

Steps to solving a two step equation:

<u>Steps</u>	<u>Example</u>
1) Move all of the constant terms to one side of the equal sign by using either addition or subtraction.	
2) Isolate the variable by using either multiplication or division.	
3) Check your solution	

Example 3) Solve and Check: $4 + \frac{x}{5} = 0$

Example 4) Ken said -20 is the solution to the equation $-4 = \frac{x}{20} - 5$.

Part A: Is Ken correct? _____

Part B: If Ken is incorrect, what is the actual solution to the above equation?

Now, You Try!

Directions: Solve and check the following equations.

5) $-15 = 4x + 5$	6) $-6x + 10 = -104$
7) $\frac{x}{9} - 1 = -2$	8) $\frac{x}{-4} + 8 = 5$
9) $9x + 9 = 9$	10) $-9x - 13 = -103$

11) Consider the following equation: $-9 = \frac{x}{5} - 14$

Part A: Which two mathematical properties will be used to solve the equation above?

Part B: Solve and check the equation above.