

Notes-Day 5: Solving Equations

Date _____ Period _____

1) -Term: A single number or variable, or the product of several numbers or variables, separated from another term by a + or – sign in an overall expression.

-Like Terms: Have exactly the same variables.

Solving means to (Have you Memorized these 5 Steps!)

1 - Distributive Property - to Eliminate Parenthesis

2 - Combine Like Terms - get same variable with same exponent together

3 - Get all Variables (x's) on one side of the equal sign

4 - Get all Constant numbers on the other side of the equal sign

5 - Multiply or Divide to get Variable (x) all by itself.

Possible Solutions:

One Solution

No Solution

All Real Numbers

Solve each equation. You must show at least three steps for each problem. NO CALCULATORS!

2) $7 = x + 2 + 6$

3) $3r + 3r = -6$

4) $4(3 + 5p) = 72$

5) $5(1 + 2x) - 6 = -61$

6) $-21 + 3n = -3(4n + 3) + 3n$

7) $-10 + n = -4n + 5(n - 2)$

$$8) -4 - 4(2r - 6) = 68$$

$$9) 66 = -6(1 - 4p)$$

$$10) -6(1 + 6x) = -x + 29$$

$$11) -(6 + 3n) = -3 - 3n$$

$$12) -2(-n - 1) - (1 + 5n) = -8$$

$$13) 3(-x + 4) + 4(2x + 4) = 33$$

$$14) 3(1 + p) = -2p - (5 - 3p)$$

$$15) 3(2v - 3) = -5(1 - 2v)$$

$$16) 4(1 - 2x) = -5x - (x + 6)$$

$$17) -6(5 - x) = -4(x - 3) - 2$$