

## WS T3-ST- Solving Equations

Date \_\_\_\_\_ Period \_\_\_\_\_

1) Steps to Solving Equations:

- 1) Distributive Property
- 2) Combine Like Terms on one side of the equal sign
- 3) Move the variables to one side (get the x's on one side)
- 4) Move the constant numbers to the other side of variables
- 5) Multiply or Divide the coefficient attached to the variable to get the variable by itself! Done.

**Solve each equation.**

2)  $-n - 3n = 4$

3)  $6p - 3p = 9$

4)  $2 = 4a - 4a$

5)  $2m + 2 - 3m = 0$

6)  $1 + v = 6v + 6 - 5v - 5$

7)  $-5n = n + 6$

8)  $r + 5 = -15 - 3r$

9)  $x - 1 = 7 + 2x$

10)  $8(5 + p) = 104$

11)  $-100 = -5(2x + 7) + 5$

$$12) 8v + 2(1 + 7v) = 112$$

$$13) 82 = 4(4 - 2b) + 2$$

$$14) -3r - 22 = -8(r + 1) - 4$$

$$15) -8(x - 7) = 3x - 32$$

$$16) 5n + 17 = -7(-6n + 3) + 1$$

$$17) -2(-n - 2) + 5 = 4 + 3n$$

$$18) -2(x - 8) = -7(x + 7)$$

$$19) -3(x + 4) - 7x = -8 - 4(-6 + 3x)$$

$$20) n - \frac{10}{7} + \frac{1}{2}n = -\frac{391}{112}$$

$$21) \frac{23}{6}n + \frac{2}{7}n = \frac{2249}{252}$$