

Solving Multi-Step Equations

Date _____ Period _____

Solve each equation.

1) $26 = 8 + v$

2) $3 + p = 8$

3) $15 + b = 23$

4) $-15 + n = -9$

5) $m + 4 = -12$

6) $x - 7 = 13$

7) $m - 9 = -13$

8) $p - 6 = -5$

9) $v - 15 = -27$

10) $n + 16 = 9$

11) $-20 = -4x - 6x$

12) $6 = 1 - 2n + 5$

13) $8x - 2 = -9 + 7x$

14) $a + 5 = -5a + 5$

15) $4m - 4 = 4m$

16) $p - 1 = 5p + 3p - 8$

$$17) 5p - 14 = 8p + 4$$

$$18) p - 4 = -9 + p$$

$$19) -8 = -(x + 4)$$

$$20) 12 = -4(-6x - 3)$$

$$21) 14 = -(p - 8)$$

$$22) -(7 - 4x) = 9$$

$$23) -18 - 6k = 6(1 + 3k)$$

$$24) 5n + 34 = -2(1 - 7n)$$

$$25) 2(4x - 3) - 8 = 4 + 2x$$

$$26) 3n - 5 = -8(6 + 5n)$$

Solving for a Variable

Don't forget to simplify any fractions you come across and remember to use *inverse* operations to undo! Solve for "y".

$$1) 3x + y = 12$$

$$2) 2x + y = 41$$

$$3) x + y = 4$$

$$4) 3x - y = 16$$

$$5) -5x - y = 12$$

$$6) 6x + 2y = 12$$

$$7) 3x + 4y = 8$$

$$8) 5x + 2y = 9$$

$$9) -6x + 9y = 11$$

$$10) 3x - 5y = 12$$

$$11) 8x - 3y = 17$$

$$12) -7x - 2y = 18$$

$$13) -5x - 9y = 23$$

$$14) x + 4y = -31$$

$$15) x - 3y = 17$$