

Name: KEY
Date: _____

6.1A Worksheet

Solve each equation. Show all work.

1) $x + 4 = 9$
 $-4 \quad | \quad -4$
 $x = 5$

2) $y - 6 = 2$
 $+6 \quad | \quad +6$
 $y = 8$

3) $p + 7 = -1$
 $-7 \quad | \quad -7$
 $p = -8$

4) $m - 4 = -4$
 $+4 \quad | \quad +4$
 $m = 0$

5) $+5 - x = 14$
 $-x + 5 = 14$
 $-5 \quad | \quad -5$
 $-x = 9$
 $-1 \quad | \quad -1$
 $x = -9$

6) $+8 + a = -9$
 $a + 8 = -9$
 $-8 \quad | \quad -8$
 $a = -17$

7) $y - 2.3 = -1.1$
 $+2.3 \quad | \quad +2.3$
 $y = 1.2$

8) $4.8 = 3 - m$
 $4.8 = -m + 3$
 $-3 \quad | \quad -3$
 $1.8 = -m$
 $-1 \quad | \quad -1$
 $-1.8 = m$

9) $12 = p + 9$
 $-9 \quad | \quad -9$
 $3 = p$

10) $-6 = 3 + w$
 $-6 = w + 3$
 $-3 \quad | \quad -3$
 $-9 = w$

11) $y - 43 = -27$
 $+43 \quad | \quad +43$
 $y = 16$

12) $19 = 32.7 + c$
 $19 = c + 32.7$
 $-32.7 \quad | \quad -32.7$
 $-13.7 = c$

Solve each equation. Show all work.

$$13) \frac{2y}{2} = \frac{6}{2}$$
$$y = 3$$

$$14) \frac{3m}{3} = \frac{24}{3}$$
$$m = 8$$

$$15) \frac{-7w}{-7} = \frac{14}{-7}$$
$$w = -2$$

$$16) \frac{-4x}{-4} = \frac{-40}{-4}$$
$$x = 10$$

$$17) -w = 92$$
$$\frac{-w}{-1} = \frac{92}{-1}$$
$$w = -92$$

$$18) 27 = -9y$$
$$\frac{27}{-9} = \frac{-9y}{-9}$$
$$-3 = y$$

$$19) -54 = -6n$$
$$\frac{-54}{-6} = \frac{-6n}{-6}$$
$$9 = n$$

$$20) 4x = -10$$
$$\frac{4x}{4} = \frac{-10}{4}$$
$$x = \frac{-10 \div 2}{4 \div 2}$$
$$x = \frac{-5}{2}$$

$$21) \frac{m}{2} = 5$$
$$\frac{2m}{2} = 5(2)$$
$$m = 10$$

$$22) \frac{w}{6} = -2$$
$$\frac{6w}{6} = -2(6)$$
$$w = -12$$

$$23) \frac{x}{-7} = -3$$
$$\frac{-7x}{-7} = -3(-7)$$
$$x = 21$$

$$24) 4 = \frac{c}{-8}$$
$$(-8)4 = \frac{-8c}{-8}$$
$$-32 = c$$

$$25) \frac{-y}{8} = 6(5)$$
$$\frac{-y}{-1} = \frac{30}{-1}$$
$$y = -30$$

$$26) \frac{-n}{-7} = 7$$
$$\frac{-7n}{-7} = 7(7)$$
$$n = 49$$