

Grade Eight Mathematics  
Solving Equations Worksheet #1

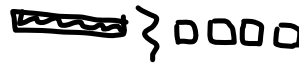
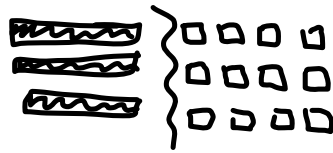
Use ALGEBRA TILES to solve each equation.

1)  $2x = -8$



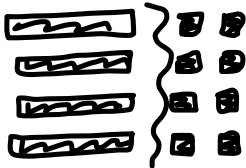
$x = -4$

2)  $-3x = 12$



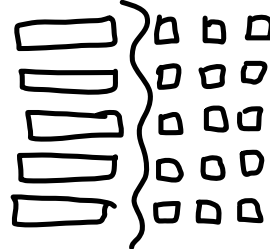
$x = -4$

3)  $-4x = -8$



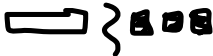
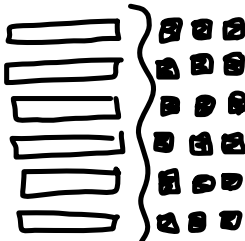
$x = 2$

4)  $5n = 15$



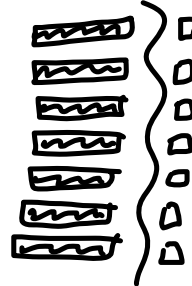
$n = 3$

5)  $6x = -18$



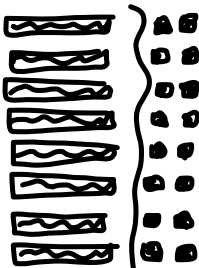
$x = -3$

6)  $-7y = 7$



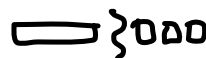
$y = -1$

7)  $-8x = -16$



$x = 2$

8)  $2x = 6$



$x = 3$

9)  $3y = -12$

$$y = -4$$

Use ALGEBRA to solve each equation.

1)  $\frac{-4x}{-4} = \frac{28}{-4}$

$$x = -7$$

4)  $\frac{-3x}{-3} = \frac{30}{-3}$

$$x = -10$$

7)  $\frac{-12x}{-12} = \frac{-72}{-12}$

$$x = 6$$

10)  $\frac{-49}{-7} = \frac{-7x}{-7}$

$$x = 7$$

13)  $\frac{2x}{2} = \frac{2}{2}$

$$x = 1$$

16)  $\frac{-9x}{-9} = \frac{-36}{-9}$

$$x = 4$$

19)  $\frac{8x}{8} = \frac{-72}{8}$

$$x = -9$$

2)  $\frac{9x}{9} = \frac{0}{9}$

$$x = 0$$

5)  $\frac{5x}{5} = \frac{45}{5}$

$$x = 9$$

8)  $\frac{-48}{6} = \frac{-6x}{-6}$

$$x = 8$$

11)  $\frac{2x}{2} = \frac{-16}{2}$

$$x = -8$$

14)  $\frac{-5x}{-5} = \frac{5}{-5}$

$$x = -1$$

17)  $\frac{-10x}{-10} = \frac{-40}{-10}$

$$x = 4$$

20)  $\frac{-81}{-9} = \frac{-9x}{-9}$

$$x = 9$$

10)  $-x = 5$

$$x = -5$$

$$-x = -1x$$

3)  $\frac{-5x}{5} = \frac{-15}{-5}$

$$x = 3$$

6)  $\frac{-24}{-2} = \frac{-2x}{-2}$

$$x = 12$$

9)  $\frac{-110}{11} = \frac{11x}{11}$

$$x = -10$$

12)  $\frac{22}{-11} = \frac{-11x}{-11}$

$$x = -2$$

15)  $\frac{48}{6} = \frac{6x}{6}$

$$x = 8$$

18)  $\frac{-8x}{-8} = \frac{-40}{8}$

$$x = 5$$

21)  $\frac{5x}{5} = \frac{2}{5}$

$$x = 0.4$$