

Solving Equations Day 2

Name _____

1. $\frac{x}{-8} = \frac{1}{2}$

2. $-\frac{x}{4} = \frac{5}{12}$

3. $\frac{-x}{9} = \frac{27}{27}$

4. $\frac{2x}{9} = 4$

5. $\frac{2}{5}x = \frac{12}{25}$

6. $\frac{2}{5x} = \frac{1}{10}$

7.

$$\frac{5}{6}x - 12 = 3$$

8.

$$-9 = -5 - \frac{2}{9}x$$

$$\frac{x}{-8} = \frac{1}{2} \cdot \frac{-8}{1}$$

$$\cdot -8$$

$$x = \frac{-8}{2} = -4$$

$$2. \quad \frac{-x}{4} = \frac{5}{12} \cdot \frac{-4-1}{1}$$

$$-4$$

$$x = \frac{-5}{3} = -1\frac{2}{3}$$

$$3. \quad \frac{-x}{9} = \frac{27}{3} \cdot \frac{9}{1}$$

$$\cdot 9$$

$$-x = \frac{9}{-1}$$

$$x = -9$$

$$4. \quad \frac{2x}{9} = 4$$

$$\cdot 9$$

$$2x = \frac{36}{2}$$

$$x = 18$$

$$5. \quad \frac{5}{2} \cdot \frac{2}{5} x = \frac{6 \cdot 12}{25} \cdot \frac{5}{2}$$

$$5$$

$$x = \frac{6}{5} = 1\frac{1}{5}$$

$$6. \quad \frac{2}{5x} = \frac{1}{10}$$

cross Multiply

$$5x = \frac{20}{5}$$

$$x = 4$$

7.

$$\frac{5}{6}x - 12 = 3$$

$$+12 \quad +12$$

$$\frac{6}{5} \cdot \frac{5}{6} x = \frac{3+12}{1} \cdot \frac{6}{5}$$

$$x = 18$$

8.

$$-9 = -5 - \frac{2}{9}x$$

$$+5 \quad +5$$

$$-4 = -\frac{2x}{9} \cdot \frac{9}{9}$$

$$9 \cdot$$

$$-36 = -2x$$

$$\frac{-36}{-2} = \frac{-2x}{-2}$$

$$18 = x$$