

## Station 1: One/Two/Three Step Equations

1.  $2x - 2\frac{3}{5} = 6\frac{4}{5}$

2.  $3t + 9 = -13$

3.  $19 - 3 = 2 + r$

4.  $\frac{1}{3} - 3 = \frac{2}{3} + x$

5. The equations  $2x + 7 = 3$  and  $bx - 10 = -2$  have the same solution for  $x$ . Find the value of  $b$ .

## Station 2: One/Two/Three Step Equations with Fractions

1.  $5 - \frac{y}{7} = 19$

2.  $-\frac{3s}{8} = -6$

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

4.  $\frac{a}{9} = \frac{2}{3}$

5. Find the value of  $a$  if  $x = 3$  is a solution to the equation  $\frac{x}{a} = 7$

### Station 3: Combining Like Terms

1.  $-27u + 13u - 5 = 3$

2.  $\frac{3}{2} = \frac{1}{4}t + 2t - 12$

3.  $\frac{t}{3} - 7 + \frac{2t}{3} = -3 - 4$

4.  $-21 = -\frac{y}{2} + y - 2y$

5.  $15 + 3t - 5 - 2t = 8 - 4$

## Station 4: Variables on Both Sides

1.  $8 - 3x = -6 + 2x$

2. Three less than two times a number equals four times the number plus eight. Create an equation based on this and solve.

3.  $x = 2(x - 6) - 3$

4.  $x - 3.8 + 1.1x = -4.2 + 2.1x + 0.4$

5. I'm thinking of a number. My number is 5 more than one-half my number. Create an equation based on this situation to find my number.

## Station 5: Variables on Both Sides with Fractions

$$1. \frac{x-7}{5} = \frac{x-2}{3}$$

$$2. 3 - \frac{8-2y}{5} = 2(y - 9)$$

$$3. \frac{4x-3x+2x-x}{2} - \frac{4-3+2-1}{4} = -2$$

$$4. \frac{9-2y}{4} = 6 - \frac{y+2}{2}$$

$$5. \frac{2}{z} + 5 = \frac{5}{z} - 4$$