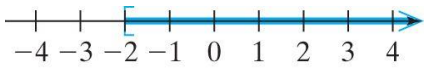
This worksheet will cover the following:

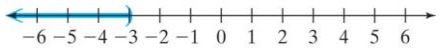
Objective 1: Set-Builder Notation and Interval Notation

Objective 2: Linear Equations Involving Multiple Steps

Objective 1: Set-Builder Notation and Interval Notation

Express each of the following in set-builder notation and interval notation.

1. 

2. 

3. 

Objective 2: Linear Equations Involving Multiple Steps

Solve each equation.

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

5. $2k-9=-8$

6. $\frac{3}{7}x-5=\frac{24}{7}x+7$

7. $-\frac{5}{9}w+\frac{11}{12}=\frac{23}{36}$

8. $\frac{1}{2}(2c-4)+3=\frac{1}{3}(6c+3)$

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

10. $\frac{4y-2}{5}-\frac{y+4}{5}=-3$

11. $\frac{z-7}{4}=\frac{6z-1}{8}-2$

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

13. $7y-3(2y+5)=7-(10-10y)$

14. $4+2\left[8-(6+x)\right]=-2(x-1)-4+x$