

## Inequalities Worksheet

**1 a.** Solve the inequality  $x + 5 \leq -3$  in the set  $\{-1, -9, -7, 10, -3, -12, -4, -5, 8\}$ .

**2 a.** Solve the inequality  $x + 10 \leq -3$  in the set  $\{-12, -11, 10, 3, 1, 12, 4, -7\}$ .

**3 a.** Solve the inequality  $x + 8 > 1$  in the set  $\{-5, -4, 10, 0, -2, 1, -9, 11\}$ .

**4 a.** Solve the inequality  $x < 5$  in the set  $\{5, -2, -4, 6, 11, -1\}$ .

**5 a.** Solve the inequality  $x < -7$  in the set  $\{-11, 11, 4, 12, 5, 9\}$ .

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key

1 a.  $\{-12, -9\}$

2 a.  $\{\}$

3 a.  $\{-5, -4, -2, 0, 1, 10, 11\}$

4 a.  $\{-4, -2, -1\}$

5 a.  $\{-11\}$