

Inequalities Worksheet

1 a. Solve the inequality $x - 2 \leq 6$ in the set $\{-1, -12, -8, -2, -5, 7, -6, 10, 2\}$.

2 a. Solve the inequality $x + (-7) < 2$ in the set $\{10, -12, 9, -9, -11, 12, -10, 4, 8\}$.

3 a. Solve the inequality $x < 2$ in the set $\{-7, 7, -8, -10, -1, 9, -12\}$.

4 a. Solve the inequality $x + 5 < -12$ in the set $\{-1, -7, 3, 0, 5, 8\}$.

5 a. Solve the inequality $x \geq -10$ in the set $\{-8, 4, 11, 1, 2, -5, -7, -9\}$.

Name: _____ Date: _____

Answer Key

1 a. $\{-12, -8, -6, -5, -2, -1, 2, 7\}$

2 a. $\{-12, -11, -10, -9, 4, 8\}$

3 a. $\{-12, -10, -8, -7, -1\}$

4 a. $\{\}$

5 a. $\{-9, -8, -7, -5, 1, 2, 4, 11\}$