

Multi-Step Inequalities - Practice Worksheet

Name: _____ Date: _____

Instructions: Solve each inequality. Show your steps, write the solution as an inequality, and graph it on the number line provided.

1. $2x + 3 > 7$

.....

2. $3x - 5 \leq 10$

.....

3. $4x + 1 \geq -11$

.....

4. $-2x + 6 > 12$

.....

5. $5x - 4 < 2x + 8$

.....

6. $3(x + 2) \geq 15$

.....

7. $-3x + 7 \leq -x + 1$

.....

8. $2(x - 4) + 3 > x - 1$

.....

9. $4(2x - 1) \leq 3x + 11$

.....

10. $-(x + 5) + 2x \geq 3x - 7$

.....

11. $(x/3) + 2 > 5$

.....

12. $-2(3x - 4) < -x + 3$

.....

Answer Key

1. $x > 2$

2. $x \leq 5$

3. $x \geq -3$

4. $x < -3$

5. $x < 4$

6. $x \geq 3$

7. $x \geq 3$

8. $x > 4$

9. $x \leq 3$

10. $x \leq 2$

11. $x > 9$

12. $x > 1$