

Practice Worksheet
Content Standard: Solve Equations & Inequalities
Student Learning Expectations: Solve simple inequalities.

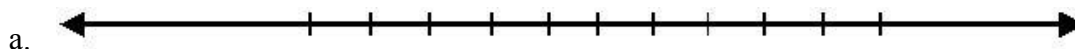
1. Solve the inequality: $3x + 6 \leq 2x - 1$

2. Solve for x: $4x + 8 < 15$

3. For what values of x is the following inequality true? $x + 31 < 42$

4. Solve: $7t - (2t + 1) \geq -5$

5. On a number line, graph the solution to $2m + 57 > 113$.



6. Each of the following inequalities can be solved in one step. Which one also requires a reversal of the inequality sign?

- a. $40x \geq -1600$
- b. $1600 \geq 32x$
- c. $-40x \leq 1600$
- d. $-1600 \leq 32x$

7. Solve $12 - 3x < 18$

8. What is the **greatest** integer that makes the inequality $5 - 3x \geq 8$ a true statement?

9. Jake is training for an in-line skate race. His goal is to skate at least 100 miles each week. Jake could only skate 7 miles on Monday. What is the fewest number of miles he must average for each of the next six days to achieve his goal?

10. Solve and graph: $-4x - 3 \leq -1$

