Lesson 3.3 Practice: Compound Inequalities

School Launch · Algebra I · Unit 3: Linear Inequalities and Absolute Value · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve and graph: $-1 \le 5x + 9 \le 39$. EASY

2. Solve and graph: $-21 \le 3x + 3 \le -6$. EASY

3. Solve and graph: $-24 \le 5x + 6 \le -9$. EASY

4. Solve: $4x + 4 < -12$ or $4x + 4 > 24$. MEDIUM

5. Solve and graph: $-15 \le 3x - 6 \le -6$. MEDIUM

6. Solve: $4x + 6 < -6$ or $4x + 6 > 30$. MEDIUM

7. Solve and graph: $13 \le 3x + 7 \le 31$. MEDIUM

8. Solve and graph: $0 \le 3x + 3 \le 15$. HARD

9. Solve and graph: $-17 \le -2x - 1 \le 1$. HARD

10. Solve and graph: $-20 \le 2x - 6 \le -6$. HARD