Lesson 3.1 Practice: Solving 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 on a number line: $-6x + 4 \geq 16$.

EASY

2. Solve and graph on a number line: $-4x - 1 > 35$.

EASY

3. Solve and graph on a number line: $-6x - 2 \geq 16$.

EASY

4. Solve and graph on a number line: $-5x + 4 > 14$.

MEDIUM

5. Solve and graph on a number line: $-4x + 10 \leq -14$. MEDIUM

6. Solve and graph on a number line: $2x - 4 > -8$.

MEDIUM

7. Solve and graph on a number line: $3x + 11 \leq -16$.

MEDIUM

8. Solve and graph on a number line: $2(-1x - 9) + 6x > -38$. HARD

9. Solve and graph on a number line: $4(-4x + 5) - 3x \leq -132$. HARD

10. Solve and graph on a number line: $4(-7x - 6) + 6x \geq 20$. HARD