Lesson 3.2 Practice: Multi-Step 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: $3x + 4 \geq 13$.

EASY

2. Solve and graph on a number line: $-5x + 10 \leq -20$. EASY

3. Solve and graph on a number line: $3x - 3 \leq 15$.

EASY

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

MEDIUM

5. Solve and graph on a number line: $-5x - 9 \leq -29$.

MEDIUM

6. Solve and graph on a number line: $3x - 8 \geq 13$.

MEDIUM

7. Solve and graph on a number line: $-1x - 11 \leq -13$. MEDIUM

8. Solve and graph on a number line: $3(2x + 3) - 5x \leq 6$. HARD

9. Solve and graph on a number line: $3(-3x - 4) + 4x > -42$. HARD

10. Solve and graph on a number line: $2(3x - 2) + 2x \leq 4$. HARD