

NAME: \_\_\_\_\_

## UNIT 2 • REASONING WITH EQUATIONS AND INEQUALITIES

### Lesson 1: Solving Equations and Inequalities

#### Practice 2.1.3: Solving Linear Inequalities

Find the solution to each inequality.

1.  $3x + 1 > 2x + 7$

2.  $4 - 3x \geq 16 + x$

3.  $2c + 5 \geq 14 + \frac{7}{3}c$

4.  $8x < 5(2x + 4)$

5.  $5x \leq 10 + 2(3x - 4)$

6.  $2(x - 4) \leq 2 + 3(x - 6)$

7.  $4 - 5(x - 2) \leq -2(-9 + 2x)$

8.  $10x + x + 10 > 8x$

9.  $12x + 3x - 1 < 8x + x$

10.  $\frac{4x}{5} + 6 < 3x + 4$

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## Warm-Up 2.1.4

1. On the tenth anniversary of the schools' opening, which school has the greater population?

2. How many more students does the school with the larger population have?