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NAME _____

Module 5 Solving Linear Inequalities of One Variable

Lesson 3 Solving Two-Step Linear Inequalities

guided notes

Lesson Objectives

- Solve two-step linear inequalities using addition and subtraction.
- Solve two-step linear inequalities using multiplication and division.

The inequality $4x + 2 < 14$ contains a multiplication and an addition.

Undo **addition** first.

To graph the inequality $x < 3$, draw an **open** circle at 3, and then draw a shaded arrow to the **left**.

1. Solve and graph: $4x - 3 > 5$ **$x > 2$**

2. Solve and graph: $\frac{1}{3}x + 7 \geq 5$ **$x \geq -6$**

3. Solve and graph: $-x + 4 \leq 3$ **$x \geq 1$**

4. Solve and graph: $-6x - 12 < -24$ **$x > 2$**

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