Solve Inequalities Using Addition or Subtraction — Student practice

Name: _____ Class: _____

Directions: Solve each inequality. Show your steps and graph or describe its solution set.

Question 1

Solve $x + 4 > 11$.

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Question 2

Solve $y - 6 \leq -2$.

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Question 3

Solve $n + \frac{3}{4} \geq 2$.

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Question 4

Solve $x - 2.5 < -6$.

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Question 5

Solve $-7 + x \geq 5$.

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Group reasoning

A bus already has 19 riders and holds no more than 44. Write and solve an inequality for the additional riders r. Explain why r must be a whole number.

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Additional practice — if time allows

Solve a strict inequality: $z - 3/2 > -5/2$.

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Exit ticket — work independently

Solve $v - 4.5 \geq 2$, and name the boundary type.

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Confidence check

☐ I can explain my reasoning.

☐ I need another example.