Solve Multi-Step Inequalities — Student practice

Name: _____ Class: _____

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

Question 1

Solve $2(x + 4) – 3 \geq 11$.

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Question 2

Solve $–3(x – 2) + 5 < 14$.

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Question 3

Solve $4x – (x + 6) \leq 12$.

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Question 4

Solve $5(2p – 1) – 3p > 30$.

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Question 5

Solve $3(x + 2) – 4 \geq 2x + 5$.

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Group reasoning

Five groups each contribute twice the variable amount s minus $1, and a one-time $12 fee must keep the cost at most $52. Solve and interpret s.

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Additional practice — if time allows

Solve $2(x - 3) + 5 \geq 3x - 4$.

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Exit ticket — work independently

Solve $-2(3x - 4) + x \geq 18$ and identify which direction to graph.

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Confidence check

☐ I can explain my reasoning.

☐ I need another example.