Solve Inequalities Using Multiplication or Division — Student practice

Name: _____ Class: _____

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

Question 1

Solve $5x \geq 20$.

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Question 2

Solve $-4y \leq 12$.

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Question 3

Solve $x/3 > -2$.

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Question 4

Solve $-x/2 \geq 5$.

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Question 5

Solve $(3/4)z < 9$.

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Group reasoning

Four equal boxes have total mass at most 34 kg. Let w be one box mass. Solve and interpret the inequality.

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Additional practice — if time allows

Solve $-(3/2)x > 9$.

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Exit ticket — work independently

Solve $-5n < 15$ and explain whether -3 belongs to the solution set.

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Confidence check

☐ I can explain my reasoning.

☐ I need another example.