

Name: _____



PRACTICE



TUTORIAL

5-7 Additional Practice

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1. Use the inequality $12 \geq 6(12x + 2)$.

a. Apply the Distributive Property to the right side.

$$12 \geq \boxed{} + \boxed{}$$

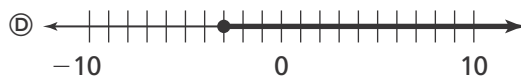
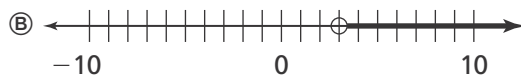
b. Solve the inequality.

$$x \leq \boxed{}$$

2. Use the inequality $24 \geq 58 + 5(x - 3.8)$.

a. Solve the inequality for x .

b. Which graph shows the solution set of the inequality?



3. Gina shows the steps she took to find the solution of the inequality below.

$$19 - 2(1 - x) < 13$$

$$19 - 2 + 2x < 13$$

$$2x < -4$$

$$x > -2$$

a. Should Gina have reversed the inequality symbol? Explain.

b. Write the correct solution for the inequality.



4. A rectangle's length, x , is 2 meters greater than its width. If the perimeter of the rectangle is greater than 112 meters, what is the rectangle's possible length, x , in meters?

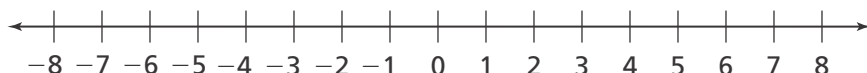
5. **Higher Order Thinking** Solve each of the inequalities below for z . Which has -5 as a solution?

$$4(1.1z + 2.75) > -6.6$$

$$2(2.1z + 4.5) \leq 21.6$$

6. **Use Structure** Solve the inequality. Then graph the solutions on the number line. © MP.7

$$-34 < -2(4x - 1)$$



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7. Solve the inequality below. Explain how you found your answer.

$$9(n + 2) - 5n \geq 34$$

