

Name: _____



PRACTICE



TUTORIAL

5-6 Additional Practice

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Leveled Practice For 1–4, solve each inequality.

1. $3 + 4x > 27$

2. $3.5 + 4t \leq 39.5$

First, subtract from both sides.

Then both sides by 4.

$x >$

3. $12 - 3y < 27$

4. $8 - \frac{1}{4}n \geq 20$

5. a. Solve: $\frac{1}{2}x + 8 \leq 10$

b. Solve: $-3x - 24 \leq -36$

c. Which of the following correctly compares the solutions of the inequalities above?

- Ⓐ The inequalities have no common solutions.
- Ⓑ The inequalities have only one common solution.
- Ⓒ The inequalities have the same solutions.
- Ⓓ The inequalities have one uncommon solution.



6. Make Sense and Persevere Amelia can spend no more than \$89 to rent a car for a day trip. A rental car costs \$35 per day plus \$0.20 per mile. Write and solve an inequality to find the possible distance in miles, m , that Amelia can drive without exceeding her budget. © MP.1

7. a. Solve: $9x - 4 > 95$

b. Solve: $4x + 10 > 54$

c. Which of the following correctly compares the solutions of the inequalities above?

- Ⓐ The inequalities have the same solutions.
- Ⓑ The inequalities have only one common solution.
- Ⓒ The inequalities have one uncommon solution.
- Ⓓ The inequalities have no common solutions.

8. Higher Order Thinking The inequalities $\frac{1}{5}x + 7 \leq 11$ and $-\frac{1}{5}x - 7 \geq -11$ have the same solutions.

- a. What are the solutions for both inequalities?
- b. Without performing any calculations, how can you tell that the inequalities will have the same solutions?

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9. Which represents the solution of the following inequality statement?

6 times a number plus 22 is greater than 7.

- Ⓐ $x \geq \frac{5}{2}$
- Ⓑ $x \leq -\frac{5}{2}$
- Ⓒ $x > -\frac{5}{2}$
- Ⓓ $x < \frac{5}{2}$

