Solve one-step inequalities

Solve on the rough paper then write the correct answer (follow the example).

1. Solve for \( x \).
   \( x \leq 8 + 2 \)
   Since \( x \) is already on the left side of the inequality, simplify the right side of the inequality.
   \( x \leq 8 + 2 \)
   \( x \leq 10 \)

2. Solve for \( x \).
   \( 17x > -34 \)

3. Solve for \( x \).
   \( 100 < 10x \)

4. Solve for \( t \).
   \( t \leq -2 + 17 \)

5. Solve for \( v \).
   \( 34 + v \leq 55 \)

6. Solve for \( x \).
   \( -24 \leq 57 + x \)

7. Solve for \( g \).
   \( g - 10 > 20 \)

8. Solve for \( a \).
   \( \frac{a}{28} \leq 2 \)

Find the value of the variables in the following expressions and choose the most correct answer.

9. \( 12v < 144 \) \( v < ? \)
   \( \square 24 \) \( \square 12 \) \( \square 10 \) \( \square 14 \)

10. \( \frac{x}{7} \geq 6 \) \( x \geq ? \)
    \( \square 22 \) \( \square 32 \) \( \square 42 \) \( \square 24 \)

11. \( x < 259 - 67 \) \( x < ? \)
    \( \square 192 \) \( \square 92 \) \( \square 292 \) \( \square 129 \)

12. \( 80x \leq 400 \) \( x \leq ? \)
    \( \square 20 \) \( \square -5 \) \( \square 10 \) \( \square 5 \)
Solve one-step inequalities

Solve on the rough paper then write the correct answer (follow the example).

1. Solve for \( x \).
   \[ x \leq 8 + 2 \]
   Since \( x \) is already on the left side of the inequality, simplify the right side of the inequality.
   \[ x \leq 10 \]

2. Solve for \( x \).
   \[ 17x > -34 \]
   \[ x > -2 \]

3. Solve for \( x \).
   \[ 100 < 10x \]
   \[ x > 10 \]

4. Solve for \( t \).
   \[ t \leq -2 + 17 \]
   \[ t \leq 15 \]

5. Solve for \( v \).
   \[ 34 + v \leq 55 \]
   \[ v \leq 24 \]

6. Solve for \( x \).
   \[ -24 \leq 57 + x \]
   \[ -81 \leq x \]

7. Solve for \( g \).
   \[ g - 10 > 20 \]
   \[ g > 30 \]

8. Solve for \( a \).
   \[ \frac{a}{28} \leq 2 \]
   \[ a \leq 56 \]

Find the value of the variables in the following expressions and choose the most correct answer.

9. \[ 12v < 144 \] \[ v < ? \]
   \[ \square 24 \] \[ \checkmark 12 \] \[ \square 10 \] \[ \square 14 \]

10. \[ \frac{x}{7} \geq 6 \] \[ x \geq ? \]
    \[ \square 22 \] \[ \square 32 \] \[ \checkmark 42 \] \[ \square 24 \]

11. \[ x < 259 - 67 \] \[ x < ? \]
    \[ \checkmark 192 \] \[ \square 92 \] \[ \square 292 \] \[ \square 129 \]

12. \[ 80x \leq 400 \] \[ x \leq ? \]
    \[ \square 20 \] \[ \square -5 \] \[ \square 10 \] \[ \checkmark 5 \]