

Geometry Readiness Practice 3

... Solving Inequalities

Unit C: Solving Inequalities

Be able to:

- Graph inequalities on a number line
- Use the additive and multiplicative properties of equality to solve inequalities
- Recognize that you must reverse the inequality symbol when you multiply or divide both sides of an inequality by a negative number

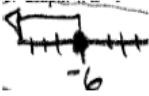
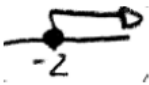

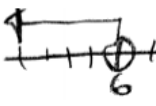



Solve

- 1) $3y + 5 < 26$
- 2) $2w + 1 < 7$
- 3) Graph: $x \leq -6$
- 4) Solve and graph the inequality: $-5 \leq w - 3$
- 5) Solve and graph solution: $-3c < -18$
- 6) Write an inequality that represents each verbal expression: c is greater than 21.
- 7) Write an inequality that represents each verbal expression: z is less than or equal to -5 .
- 8) Graph on a number line: $x < 6$
- 9) Solve and graph: $-x \geq 5$
- 10) Solve and graph: $2x - 3(x - 5) > 10$
- 11) Solve and graph: $2x + 5 \leq 4x + 1$
- 12) Solve: $-2y - 6 - y > 15$
- 13) Solve: $6m - 5m + 2 \geq 11$
- 14) Solve: $2(c - 3) - 2c > 0$
- 15) Solve: $-3t + 1 \geq -3(t + 2)$
- 16) Solve: $4 \leq \frac{-2}{5}y$
- 17) Solve: $\frac{x}{4} > -1$

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Answers

<p>ANSWERS for Unit C</p> <p>1) $y < 7$</p> <p>2) $w < 3$</p> <p>3) A number line with tick marks. An open circle is drawn at the number 3. An arrow points to the left from this circle, indicating the solution set $w < 3$.</p> <p>4) $-2 \leq w$</p> <p>A number line with tick marks. A closed circle is drawn at the number -2. An arrow points to the right from this circle, indicating the solution set $-2 \leq w$.</p> <p>5) $c > 6$</p> <p>A number line with tick marks. An open circle is drawn at the number 6. An arrow points to the right from this circle, indicating the solution set $c > 6$.</p> <p>6) $c > 21$</p>	<p>7) $z \leq -5$</p> <p>8) A number line with tick marks. An open circle is drawn at the number 6. An arrow points to the left from this circle, indicating the solution set $z < 6$.</p> <p>9) $x \leq -5$</p> <p>A number line with tick marks. A closed circle is drawn at the number -5. An arrow points to the left from this circle, indicating the solution set $x \leq -5$.</p> <p>10) $x < 5$</p> <p>A number line with tick marks. An open circle is drawn at the number 5. An arrow points to the left from this circle, indicating the solution set $x < 5$.</p> <p>11) $2 \leq x$</p> <p>A number line with tick marks. A closed circle is drawn at the number 2. An arrow points to the right from this circle, indicating the solution set $2 \leq x$.</p>	<p>12) $y < -7$</p> <p>13) $y \leq -7$</p> <p>14) $m \geq 9$</p> <p>15) All real #s</p> <p>16) All real #s</p> <p>17) $-10 \geq y$</p> <p>18) $x > -4$</p>
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