

Riddle: Solving Inequalities

## Why did someone try to build a house on Mr. Colby's head?

On another piece of paper, solve any inequality below. Then, draw a straight line connecting it to the inequality that describes the solution set. The line will cross a number and a letter. The number tells you where to put the letter in the boxes at the bottom of the page. Keep working to discover the answer to the riddle above.

<p>① <math>3x + 8 &gt; 2</math>      ■</p> <p>② <math>7x - 1 &lt; 20</math>      ■</p> <p>③ <math>8 - 4x &gt; -12</math>      ■</p> <p>④ <math>-5x - 9 \geq -4</math>      ■</p> <p>⑤ <math>63 + 12x &lt; 15</math>      ■</p> <p>⑥ <math>-8x + 25 \leq -31</math>      ■</p> <p>⑦ <math>-10 + 2x \geq -52</math>      ■</p> <p>⑧ <math>15 &gt; 6x - 9</math>      ■</p> <p>⑨ <math>48 &lt; 20 - 14x</math>      ■</p> <p>⑩ <math>-60 \geq 9x + 3</math>      ■</p> <p>⑪ <math>18 - 10x &lt; -22</math>      ■</p> <p>⑫ <math>7 &lt; 3x - 8</math>      ■</p> <p>⑬ <math>-12x - 8 \leq 64</math>      ■</p> <p>⑭ <math>-17 &gt; -7x - 45</math>      ■</p> <p>⑮ <math>3x - 42 &lt; 0</math>      ■</p> <p>⑯ <math>44 \geq -8x - 44</math>      ■</p> <p>⑰ <math>4x + 12 &gt; -24</math>      ■</p> <p>⑱ <math>-17 \leq -6x + 25</math>      ■</p>		<p>■ <math>x \geq -21</math></p> <p>■ <math>x &gt; 5</math></p> <p>■ <math>x &gt; -2</math></p> <p>■ <math>x &gt; -4</math></p> <p>■ <math>x \leq 7</math></p> <p>■ <math>x &lt; 3</math></p> <p>■ <math>x \leq -1</math></p> <p>■ <math>x &lt; 14</math></p> <p>■ <math>x \geq 7</math></p> <p>■ <math>x \leq -7</math></p> <p>■ <math>x &gt; -9</math></p> <p>■ <math>x &lt; 5</math></p> <p>■ <math>x &lt; 4</math></p> <p>■ <math>x &gt; 4</math></p> <p>■ <math>x \geq -11</math></p> <p>■ <math>x \geq -6</math></p> <p>■ <math>x &lt; -4</math></p> <p>■ <math>x &lt; -2</math></p>
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