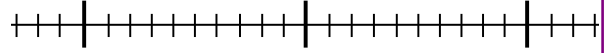


## Inequalities Worksheet

**1 a.** Write the inequality that matches the graph.



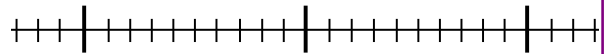
**1 b.** Plot the inequality  $k \leq -28$ .



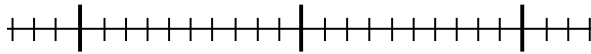
**2 a.** Plot the inequality  $g > -45$ .



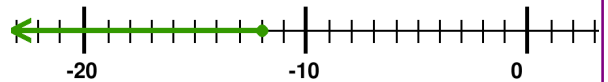
**2 b.** Plot the inequality  $b > 50$ .



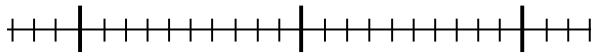
**3 a.** Plot the inequality  $k \leq -8$ .



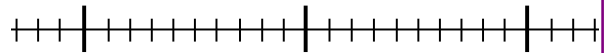
**3 b.** Write the inequality that matches the graph.



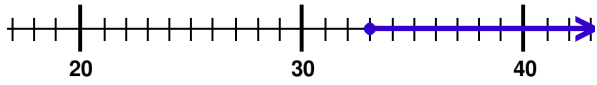
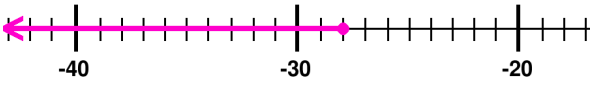
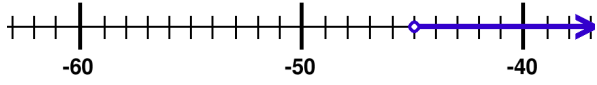
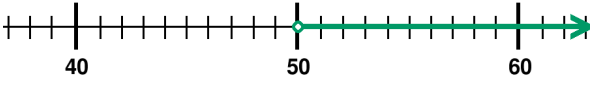
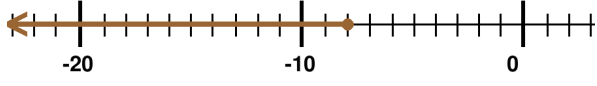
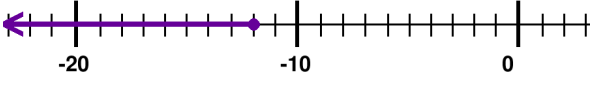
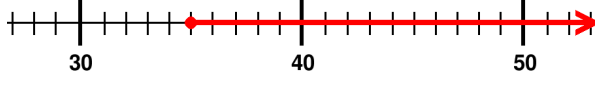
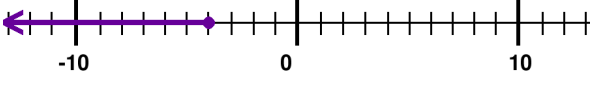
**4 a.** Plot the inequality  $t \geq 35$ .



**4 b.** Plot the inequality  $c \leq -4$ .



## Answer Key

<p><b>1 a.</b>  A number line with major tick marks at 20, 30, and 40. A blue closed circle is at 33, and a blue arrow points to the right from this circle.</p> <p><math>x \geq 33</math></p>	<p><b>1 b.</b>  A number line with major tick marks at -40, -30, and -20. A pink closed circle is at -28, and a pink arrow points to the left from this circle.</p> <p><math>k \leq -28</math></p>
<p><b>2 a.</b>  A number line with major tick marks at -60, -50, and -40. A blue open circle is at -45, and a blue arrow points to the right from this circle.</p> <p><math>g &gt; -45</math></p>	<p><b>2 b.</b>  A number line with major tick marks at 40, 50, and 60. A green open circle is at 50, and a green arrow points to the right from this circle.</p> <p><math>b &gt; 50</math></p>
<p><b>3 a.</b>  A number line with major tick marks at -20, -10, and 0. A brown closed circle is at -8, and a brown arrow points to the left from this circle.</p> <p><math>k \leq -8</math></p>	<p><b>3 b.</b>  A number line with major tick marks at -20, -10, and 0. A purple closed circle is at -12, and a purple arrow points to the left from this circle.</p> <p><math>x \leq -12</math></p>
<p><b>4 a.</b>  A number line with major tick marks at 30, 40, and 50. A red closed circle is at 35, and a red arrow points to the right from this circle.</p> <p><math>t \geq 35</math></p>	<p><b>4 b.</b>  A number line with major tick marks at -10, 0, and 10. A purple closed circle is at -4, and a purple arrow points to the left from this circle.</p> <p><math>c \leq -4</math></p>