

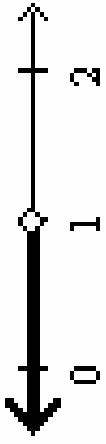
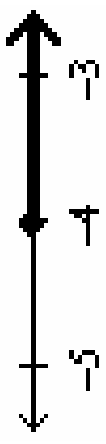
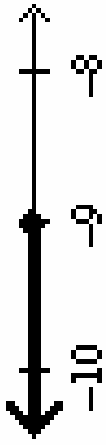
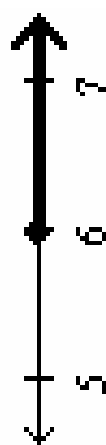
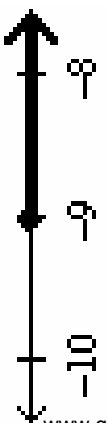
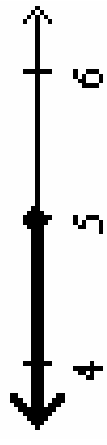
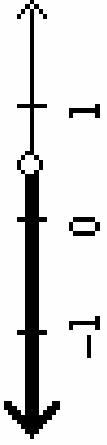
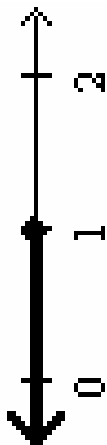
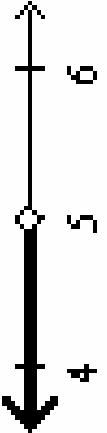
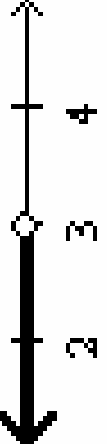
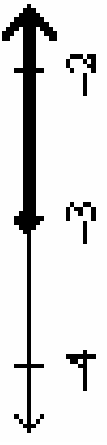
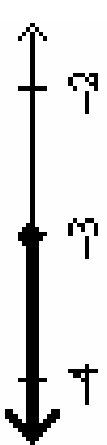
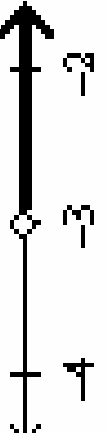
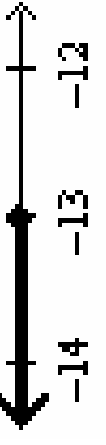
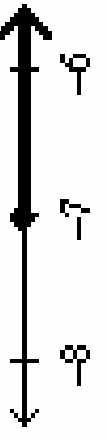
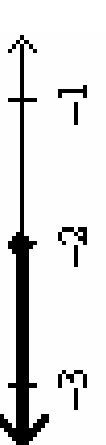
# Inequalities

## MatchingMania

- 1 Inequalities MatchingMania consists of 16 inequalities graphed on a number line. The numberline graphs are then to be identified by their inequality as well as the solution to the inequality. Students are then to complete the worksheet by translating to words the inequality given.
- 2 The worksheet, graphs and the appropriate forms of the answer are listed below:
  - page 1**    **Worksheet**
  - page 2**    **The numberline graphs of the inequalities**
  - page 3**    **The inequalities**
  - page 4**    **The solution to each inequality**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Inequality MatchingMania cards. Students work as a pair matching the appropriate solutions to each graph, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

# Inequalities Worksheet

Graph	Inequality	Solution	Translate to words
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

<p>1</p> 	<p>2</p> 	<p>3</p> 	<p>4</p> 
<p>8</p> 	<p>7</p> 	<p>6</p> 	<p>5</p> 
<p>9</p> 	<p>10</p> 	<p>11</p> 	<p>12</p> 
<p>13</p> 	<p>14</p> 	<p>15</p> 	<p>16</p> 

<p><b>h</b></p> $2x + 6 \geq -8$	<p><b>a</b></p> $x + -4 \leq -3$	<p><b>i</b></p> $2x - 4 \leq -8$
<p><b>k</b></p> $2x + 3 < 9$	<p><b>m</b></p> $-3x - 4 < 5$	<p><b>f</b></p> $-x - 8 \geq -5$
<p><b>h</b></p> $2x + 6 \geq -8$	<p><b>a</b></p> $x + -4 \leq -3$	<p><b>n</b></p> $-3x \leq 27$
<p><b>h</b></p> $2x + 6 \geq -8$	<p><b>a</b></p> $x + -4 \leq -3$	<p><b>d</b></p> $4x - 2 < 0$
<p><b>h</b></p> $2x + 6 \geq -8$	<p><b>a</b></p> $x + -4 \leq -3$	<p><b>o</b></p> $4x \geq 24$
<p><b>j</b></p> $-15 \leq -3x$	<p><b>g</b></p> $9x + 7 \leq 8x - 2$	<p><b>e</b></p> $5 > x$
<p><b>j</b></p> $-15 \leq -3x$	<p><b>g</b></p> $9x + 7 \leq 8x - 2$	<p><b>p</b></p> $3x \geq -12$

<p><b>C</b></p> <p><math>x \leq 5</math></p>	<p><b>L</b></p> <p><math>x \leq 1</math></p>	<p><b>K</b></p> <p><math>x &lt; 1</math></p>	<p><b>P</b></p> <p><math>x \geq -7</math></p>
<p><b>J</b></p> <p><math>x &lt; 5</math></p>	<p><b>I</b></p> <p><math>x \geq -9</math></p>	<p><b>M</b></p> <p><math>x &lt; 1/2</math></p>	<p><b>E</b></p> <p><math>x \leq -2</math></p>
<p><b>D</b></p> <p><math>x \geq -4</math></p>	<p><b>A</b></p> <p><math>x \leq -13</math></p>	<p><b>G</b></p> <p><math>x \geq 6</math></p>	<p><b>F</b></p> <p><math>x \leq -3</math></p>
<p><b>N</b></p> <p><math>x \leq -9</math></p>	<p><b>H</b></p> <p><math>x &gt; -3</math></p>	<p><b>B</b></p> <p><math>x \geq -3</math></p>	<p><b>O</b></p> <p><math>x &lt; 3</math></p>