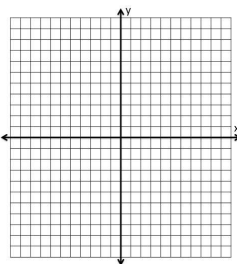
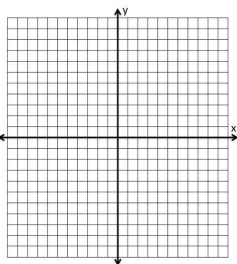
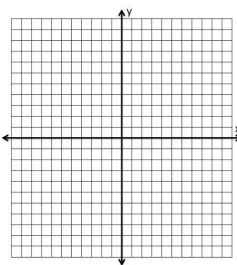
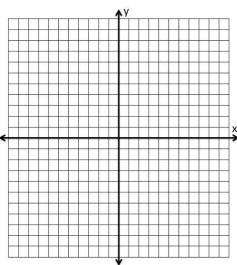


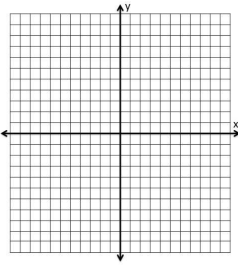
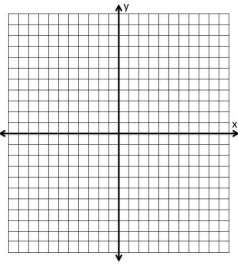
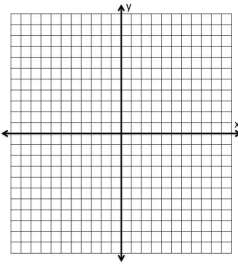
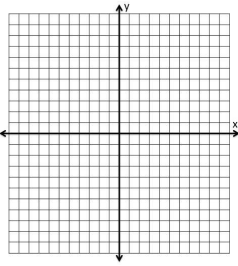
# Color By Number: Graphing Systems of Inequalities

Name: \_\_\_\_\_

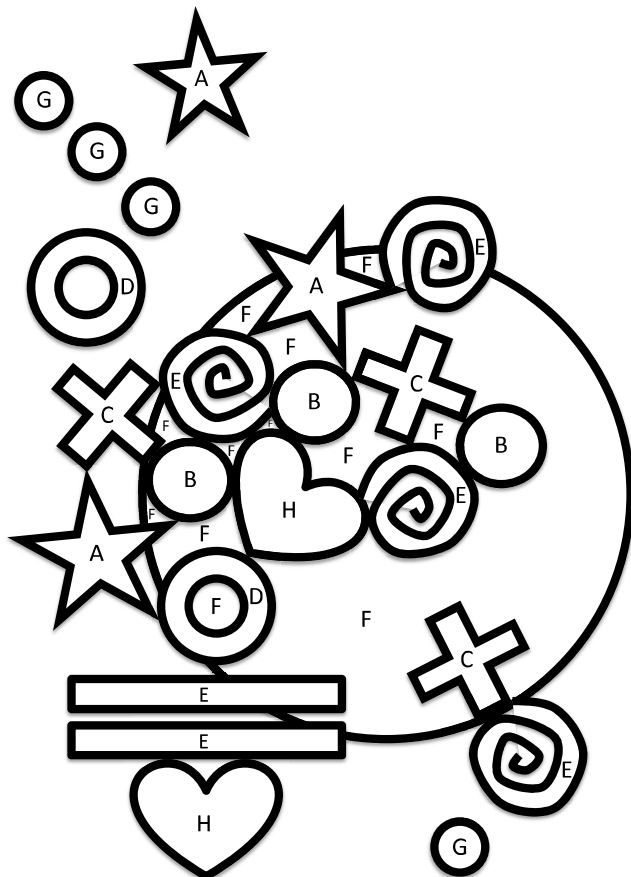
Graph each system of inequalities. Show all work clearly and neatly. Remember that a common solution to a system of inequalities will be in the commonly shaded area or at a point where two solid lines intersect. Follow the directions to complete the coloring activity.

<p><b>A</b> <math>y &lt; 2x - 4</math>   <math>y \geq \frac{1}{2}x + 2</math></p>  <p>If (0,3) is a common solution, color section A yellow. If not, color the section light blue.</p>	<p><b>B</b> <math>y &lt; -\frac{4}{3}x + 2</math>   <math>y \geq \frac{1}{5}x</math></p>  <p>If (-1,1) is a common solution, color section B pink. If not, color the section green.</p>
<p><b>C</b> <math>3x - 3y &lt; 3</math>   <math>-y &gt; x - 5</math></p>  <p>If (3,1) is a common solution, color section C light blue. If not, color the section orange.</p>	<p><b>D</b> <math>7y \leq 2x</math>   <math>y - 5x \leq 8</math></p>  <p>If (0,-5) is a common solution, color section D dark blue. If not, color the section red.</p>

Objective: Students will graph systems of inequalities  
Activities by Jill

<p><b>E</b> <math>2y + 3x \leq 6</math>   <math>y &lt; -4</math></p>  <p>If (0,0) is a common solution, color section E light blue. If not, color the section yellow.</p>	<p><b>F</b> <math>-3y &gt; x + 18</math>   <math>y \geq -4x</math></p>  <p>If (1,1) is a common solution, color section F purple. If not, color the section green.</p>
<p><b>G</b> <math>x - 5 &gt; 3</math>   <math>-y &gt; 7</math></p>  <p>If (10,-10) is a common solution, color section G purple. If not, color the section yellow.</p>	<p><b>H</b> <math>2x - y \leq 2</math>   <math>4y &gt; 16 - 7x</math></p>  <p>If (2,5) is a common solution, color section H red. If not, color the section dark blue.</p>

Objective: Students will graph systems of inequalities  
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