

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PER. \_\_\_\_\_

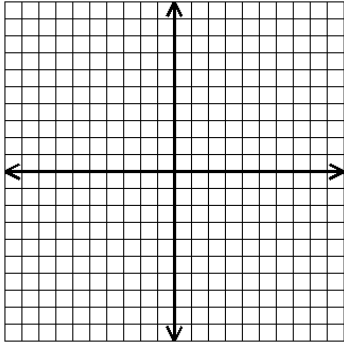
**DILATIONS**

Using the given scale factor and center, dilate the following figures and state the new coordinates.

<p>1. B' (_____, _____) C' (_____, _____)</p>	<p>Scale Factor: 3; Center: 'A'</p>	
<p>2. R' (_____, _____) S' (_____, _____) T' (_____, _____)</p>	<p>Scale Factor: 2; Center: origin</p>	

**REVIEW**

<p>3. H' _____ J' _____ K' _____ L' _____</p>	<p>Reflect the figure with the given vertices across the line <math>y = x</math> H(2,1), J(3,1), K(2,-1), L(1,-1)</p>	
<p>4. M' _____ N' _____ P' _____</p>	<p>Translate the figure with the given vertices the indicated distance. M(-4,-4), N(-2,-3), P(-1,3); left 3 and up 5</p>	

<p>5. R' _____ S' _____ T' _____</p>	<p><math>\triangle RST</math> has vertices <math>R(1,2)</math>, <math>S(1,4)</math>, <math>T(-3,4)</math>. Rotate <math>\triangle RST</math> <math>90^\circ</math> clockwise about the origin and then reflect it across the <math>y</math>-axis.</p> 
<p>6. _____</p>	<p>If <math>Z</math> is in the interior of <math>\angle WXY</math>. Find <math>m\angle WXY</math> if <math>m\angle WXZ = 23^\circ</math> and <math>m\angle ZXY = 51^\circ</math>.</p>
<p>7. _____</p>	<p>Find <math>ST</math> if vertices are <math>S(-4,1)</math> and <math>T(2,9)</math>.</p>
<p>8. _____</p>	<p>Tell whether the following polygon is concave or convex and name it by the number of its sides.</p> 