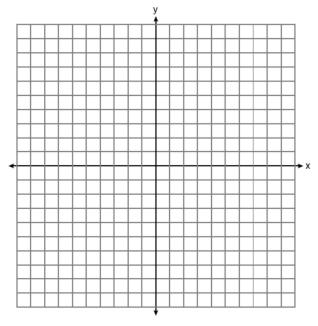
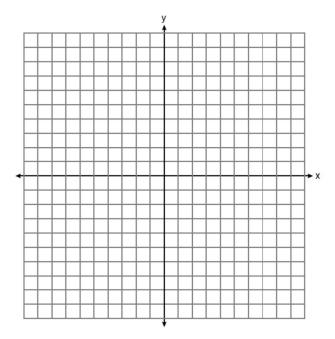
Name	Date
Mr. Schlansky	Geometry

Dilations

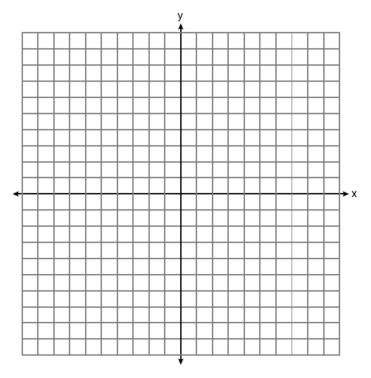
1. Triangle SUN has coordinates S(0,4), U(3,5), and N(3,0). On the accompanying grid, draw and label $\triangle SUN$. Then, graph and state the coordinates of $\triangle S'U'N'$, the image of $\triangle SUN$ after a dilation of 2 centered at the origin.



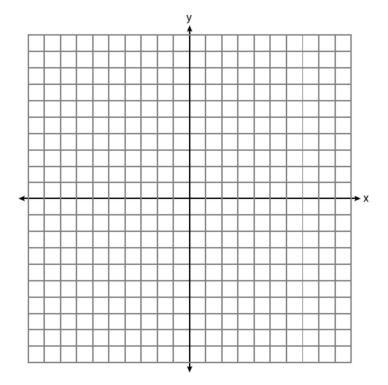
2. Triangle *SUN* has coordinates S(0,4), U(3,5), and N(3,0). On the accompanying grid, draw and label $\triangle SUN$. Then, graph and state the coordinates of $\triangle S'U'N'$, the image of $\triangle SUN$ after a dilation of 2 centered at (-1,4).



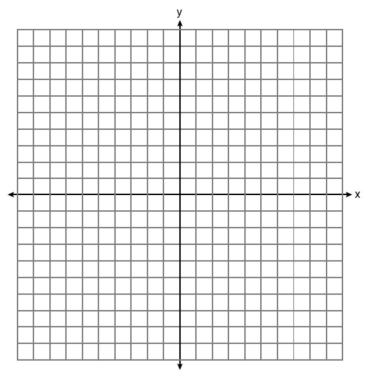
3. Triangle ABC has coordinates A(2,1), B(6,1), C(5,3). What is the image of this triangle after a dilation of 4 centered at (6,4). Graph both the image and the pre image.



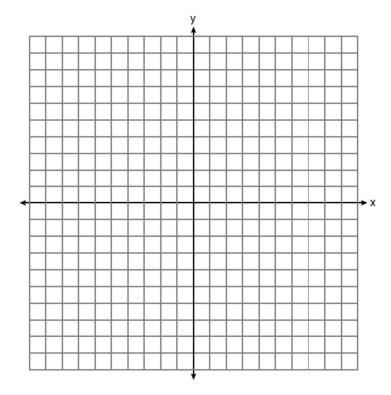
4. The coordinates of the vertices of $\triangle RST$ are R(-2,3), S(4,4), and T(2,-2). Graph $\triangle RST$ and $\triangle R'S'T'$, the image of $\triangle RST$ after a dilation of 3 centered at (1,2).



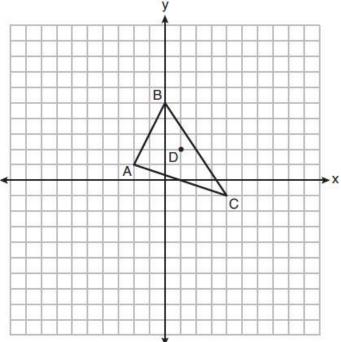
5. Triangle SBR has coordinates S(-2,3), B(-1,-2), and R(3,-3). What is the image of this triangle after a dilation with a scale factor of 3 centered at the origin. Graph both the image and the pre image.



6. The coordinates of the vertices of ΔJKL are J(5,-2), K(6,1), and L(-1,0). Graph ΔJKL . Graph and label $\Delta J'K'L'$, the image of ΔJKL after a dilation of 2 centered at J.



7. Triangle ABC and point D(1,2) are graphed on the set of axes below. Graph and label $\triangle A'B'C'$, the image of $\triangle ABC$, after a dilation of scale factor 2 centered at point D.



8. Triangle *QRS* is graphed on the set of axes below. On the same set of axes, graph and label $\triangle Q^{\dagger}R^{\dagger}S^{\dagger}$, the image of $\triangle QRS$ after a dilation with a scale factor of $\frac{3}{2}$ centered at the origin.

