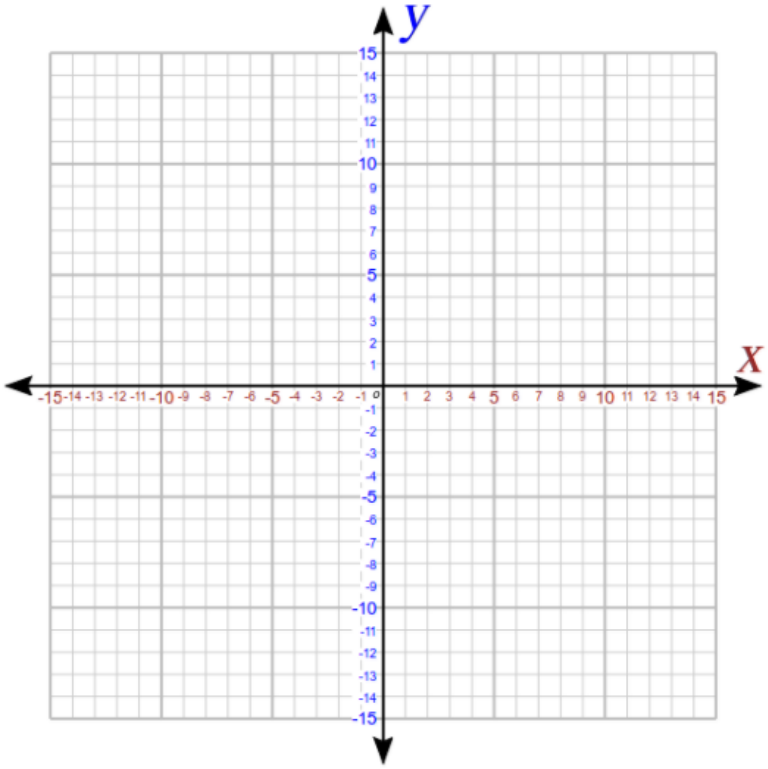
Multi-Step Transformations 2

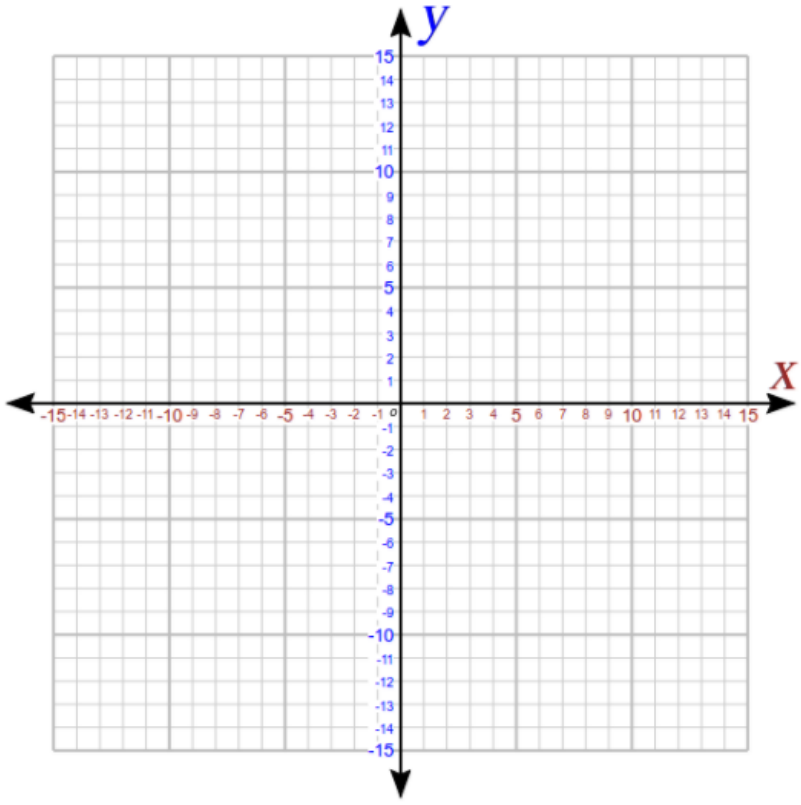
Name_____

The vertices of a figure are given. Find the coordinates of the figure after the transformations given.

1.) Rotate 90° clockwise about the origin. Then dilate with respect to the origin using a scale factor of 3. Find the coordinates after each transformation given.
J (1,1) K(3, 4), L(5,1)



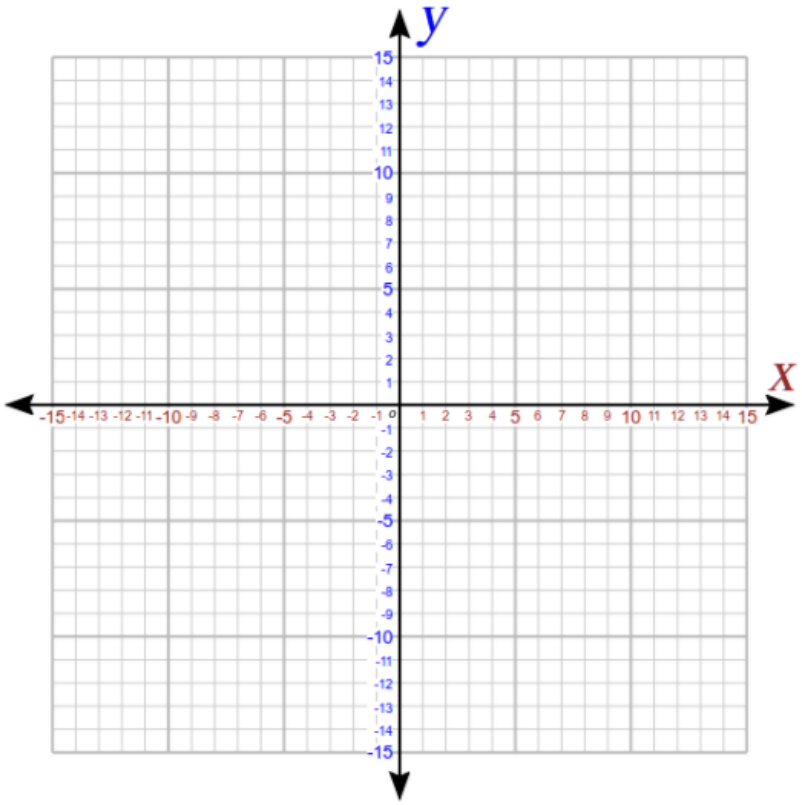
2.) Dilate with respect of the origin using a scale factor of 2. Then dilate with respect to the origin using a scale factor of 0.5. Find the coordinates after each transformation given.
P(-2,2), Q(4,2), R(2, -6), S(-4,-6)



Multi-Step Transformations 2

Name_____

3.) The vertices of a figure are P(1,2), Q (3,4), and R(-1, 6). Dilate with respect to the origin using a scale factor of 2 and then translate 4 units right and 3 units down. Find the coordinate of the figure after the transformations given.



4.) The vertices of a trapezoid are A (-4,0), B (-2,4), C (2,4), and D (6,0). Dilate the trapezoid with respect to the origin using a scale factor of 0.5. Then translate it 2 units right and 3 units down. Find the coordinate of the figure after the transformations given.