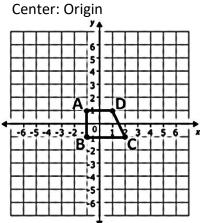
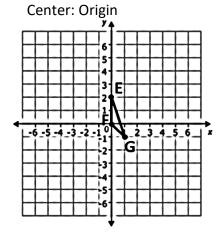
Directions: Perform the dilation given the scale factor and center of dilation.

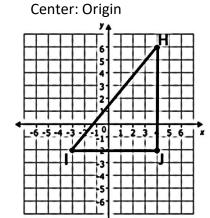
1) Scale Factor: 2



2) Scale Factor: 3

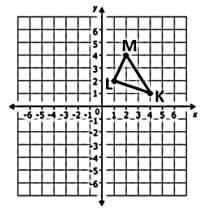


3) Scale Factor:  $\frac{1}{2}$ 



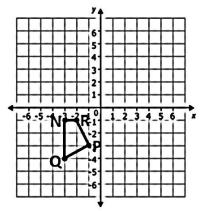
4) Scale Factor: 2

Center: (6, 4)



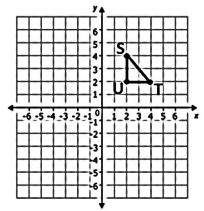
5) Scale Factor: 3

Center: (-4, -5)



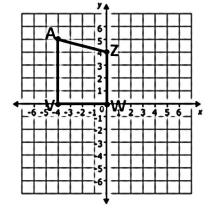
6) Scale Factor:  $\frac{1}{2}$ 

Center: (-6, 2)



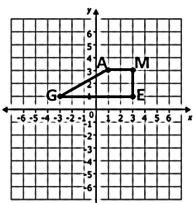
7) Scale Factor:  $\frac{1}{4}$ 

Center: Origin



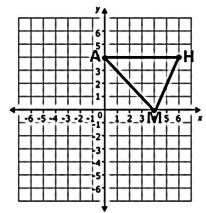
8) Scale Factor: 2

Center: (0, 2)

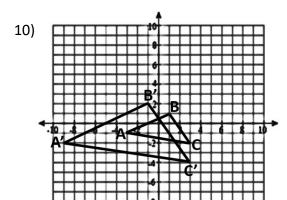


9) Scale Factor:  $\frac{1}{4}$ 

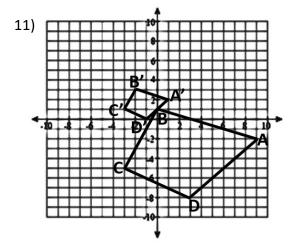
Center: (4, 4)



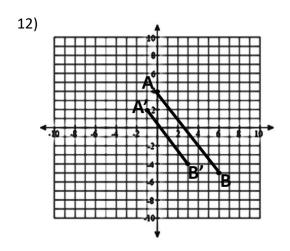
Directions: Identify the scale factor and the center of dilation.



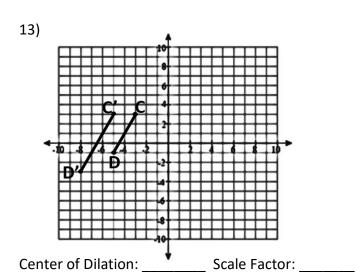
Center of Dilation: \_\_\_\_\_ Scale Factor: \_\_\_\_\_



Center of Dilation: \_\_\_\_\_ Scale Factor: \_\_\_\_\_

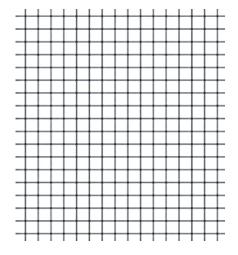


Center of Dilation: \_\_\_\_\_ Scale Factor: \_\_\_\_\_



Directions: Solve each problem.

14) M(-8, 4)is dilated about (-4,5) to produce M'(-12, 3). What is the ordered pair that will represent J' using this same dilation if Point J is located at (-4, 2)?



15) Q(5, -1) is transformed by a horizontal stretch by a scale factor of 3 about a center of (1, 4). What is Q'?

