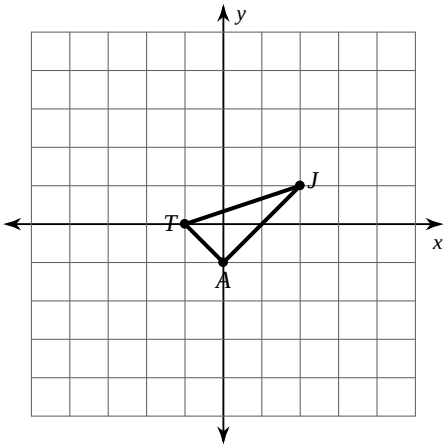
8th Grade Math Name_____

Dilations 2

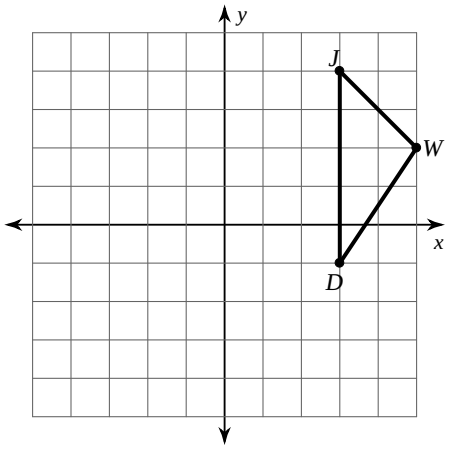
Date_____

Find the coordinates of the vertices of each figure after the given transformation.

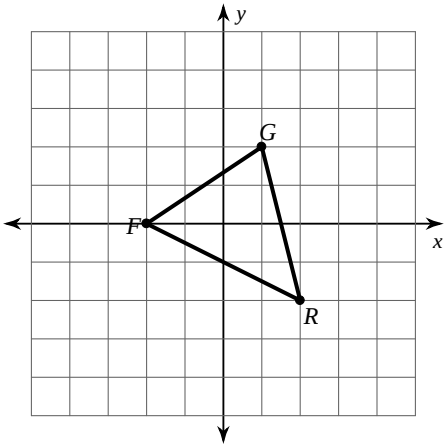
1) dilation of 2



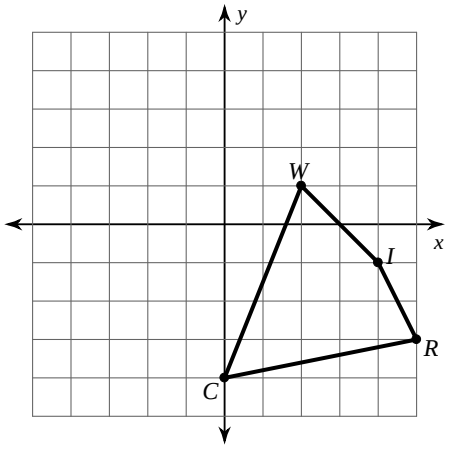
2) dilation of $\frac{1}{2}$



3) dilation of 1.5



4) dilation of $\frac{1}{4}$



Write a rule to describe each transformation.

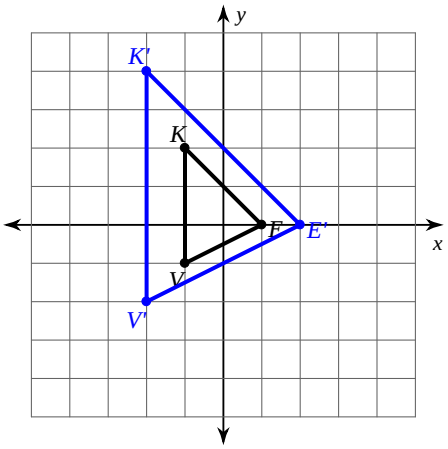
5) $D(0, 3), L(3, 5), A(2, 3)$
to
$D'(0, 1.5), L'(1.5, 2.5), A'(1, 1.5)$

6) $F(-1, 1), M(1, 2), Q(1, -1)$
to
$F'(-2, 2), M'(2, 4), Q'(2, -2)$

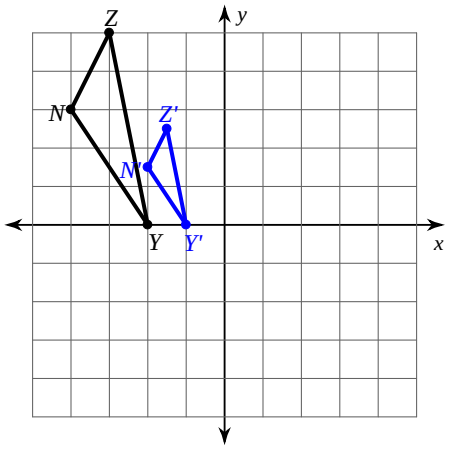
7) $W(-4, 0), N(-4, 2), P(-1, 4), M(0, 0)$
to
$W'(-1, 0), N'(-1, 0.5), P'(-0.25, 1), M'(0, 0)$

8) $R(-2, -2), K(0, 3), X(2, 3), Z(3, -1)$
to
$R'(-3, -3), K'(0, 4.5), X'(3, 4.5), Z'(4.5, -1.5)$

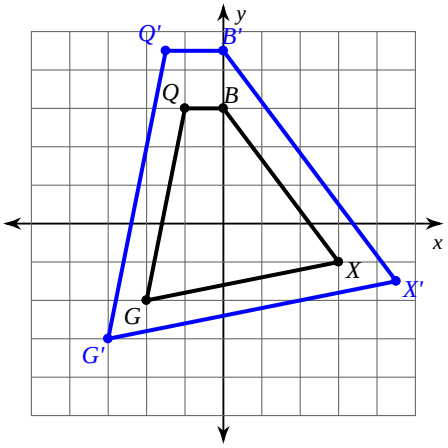
9)



10)



11)



12)