8th Grade Math Name_____

Dilations 1

Date_____

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

1) dilation of 2.5
$J(-2, -1)$, $K(-1, 1)$, $U(2, -1)$

2) dilation of $\frac{3}{2}$
$H(0, -3)$, $D(-2, 1)$, $M(2, 3)$, $S(3, 0)$

3) dilation of 1.5
$U(-1, -1)$, $P(-1, 0)$, $N(0, 1)$, $S(2, 0)$

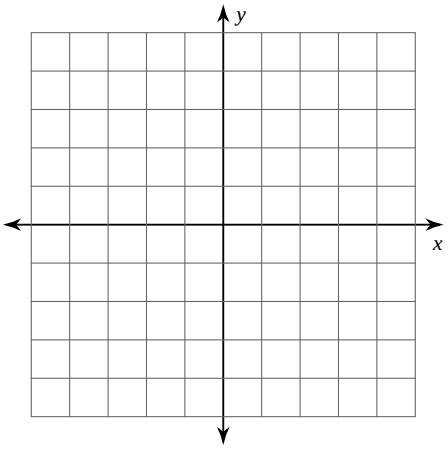
4) dilation of $\frac{1}{4}$
$L(-1, -3)$, $T(2, 1)$, $E(4, -2)$

5) dilation of 2.5
$V(-1, -1)$, $M(-1, 1)$, $W(1, 2)$, $B(1, -1)$

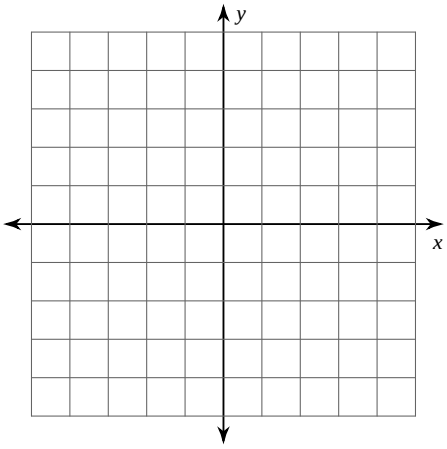
6) dilation of 2
$V(-1, -2)$, $C(-1, 2)$, $B(2, 2)$

Graph the image of the figure using the transformation given.

7) dilation of $\frac{1}{4}$
$U(-1, -1)$, $Q(1, 1)$, $R(1, -1)$



8) dilation of 2
$U(-2, 1)$, $N(2, 2)$, $J(2, -1)$



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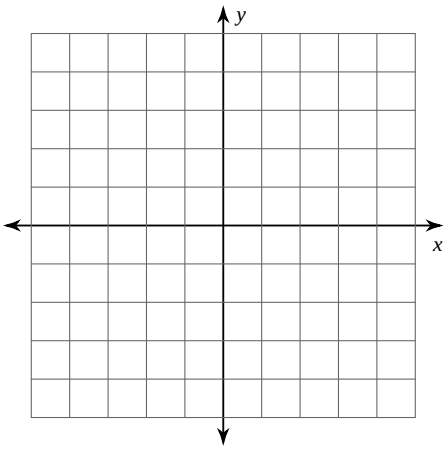
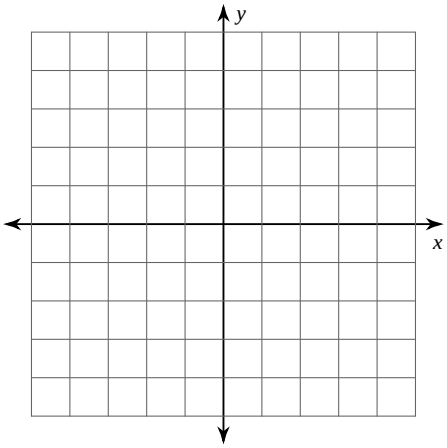
9) dilation of 0.5

$D(-1, -5)$, $T(-1, -3)$, $B(3, -2)$



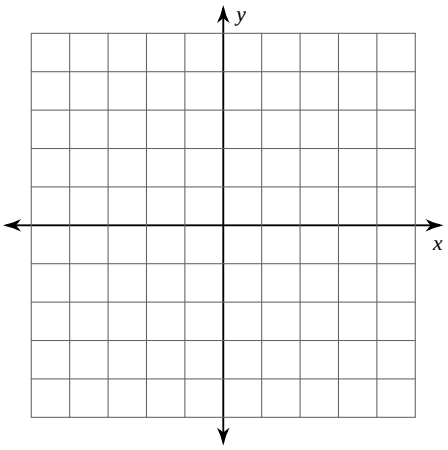
10) dilation of $\frac{1}{2}$

$C(-2, -2)$, $K(-2, 2)$, $A(0, 2)$, $B(3, -2)$



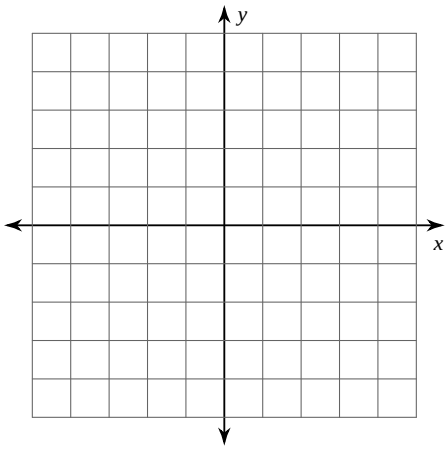
11) dilation of $\frac{3}{2}$

$P(-2, 1)$, $K(-2, 2)$, $L(3, 2)$, $S(2, -2)$



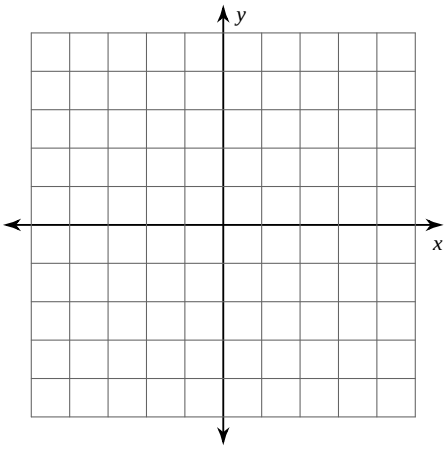
12) dilation of $\frac{5}{2}$

$U(-2, -1)$, $P(0, 2)$, $X(2, -2)$



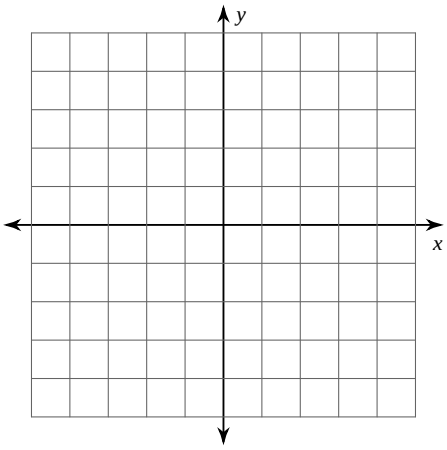
13) dilation of 2

$N(-1, -1)$, $P(-2, 2)$, $B(-1, 2)$, $Z(2, -1)$



14) dilation of 1.5

$Z(-2, -2)$, $M(-1, 3)$, $Q(1, 2)$, $W(2, -2)$



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