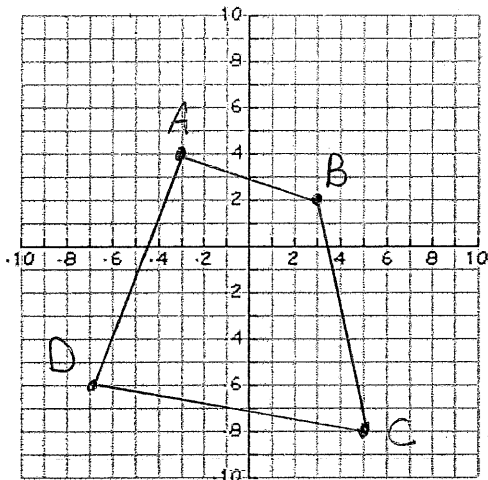
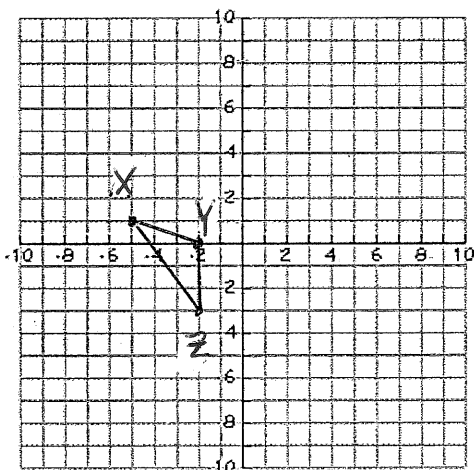


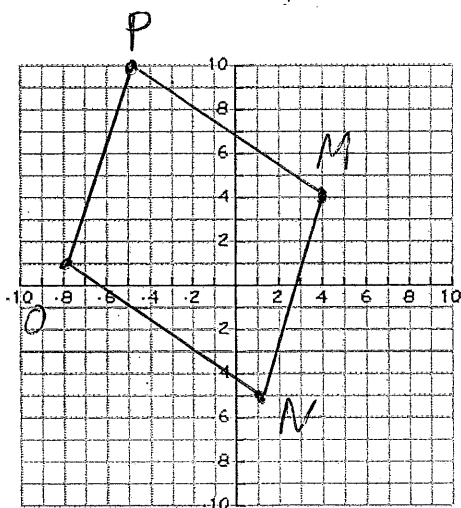
- Graph the dilated image of Quadrilateral ABCD using a scale factor of  $\frac{1}{2}$  and center of dilation  $(1, -2)$



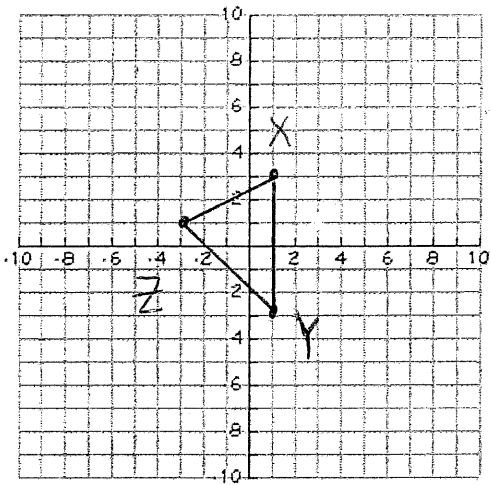
- Graph the dilated image of Triangle XYZ using a scale factor of 2 and center of dilation  $(-3, -1)$



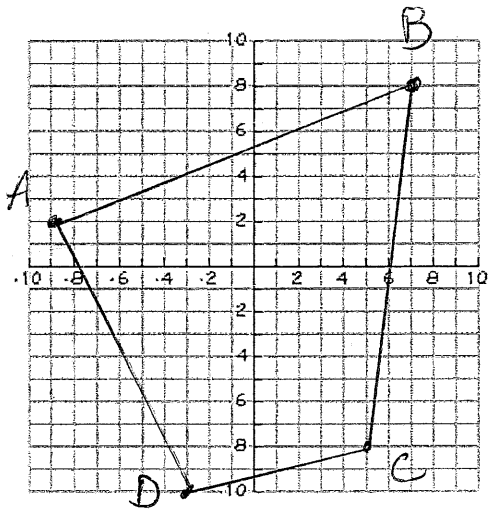
- Graph the dilated image of Quadrilateral MNOP using a scale factor of  $\frac{2}{3}$  and center of dilation  $(-2, 1)$



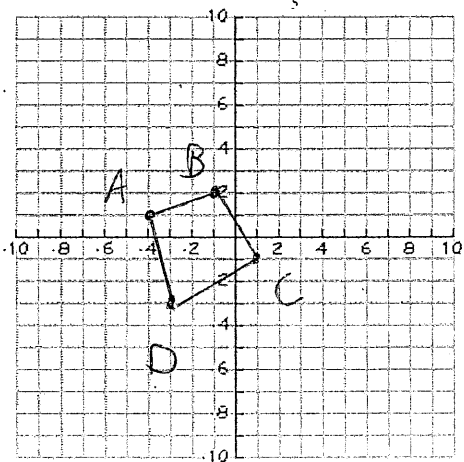
4. Graph the dilated image of Triangle XYZ using a scale factor of  $\frac{5}{2}$  and center of dilation  $(-1, 1)$



5. Graph the dilated image of Quadrilateral ABCD using a scale factor of  $\frac{1}{2}$  and center of dilation  $(1, -2)$

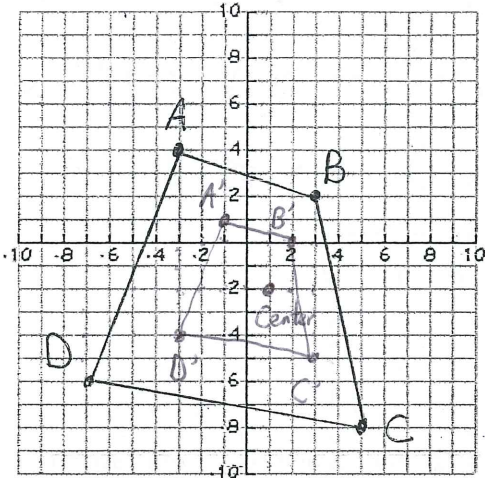


6. Graph the dilated image of Quadrilateral ABCD using a scale factor of 3 and center of dilation  $(-2, 0)$



\* start count from the center of dilation \*

1. Graph the dilated image of Quadrilateral ABCD using a scale factor of  $\frac{1}{2}$  and center of dilation  $(1, -2)$



$$A(-4, 6) \xrightarrow{k=1/2} A'(-1, 1)$$

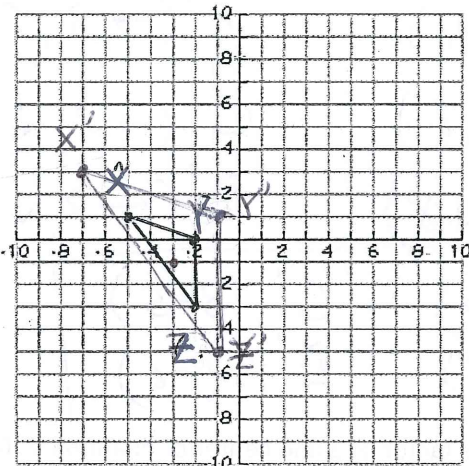
$$B(4, 2) \rightarrow B'(2, 0)$$

$$C(6, -8) \rightarrow C'(3, -5)$$

$$D(-8, -4) \rightarrow D'(-3, -4)$$

$A'(-1, 1)$	$C'(3, -5)$
$B'(2, 0)$	$D'(-3, -4)$

2. Graph the dilated image of Triangle XYZ using a scale factor of 2 and center of dilation  $(-3, -1)$



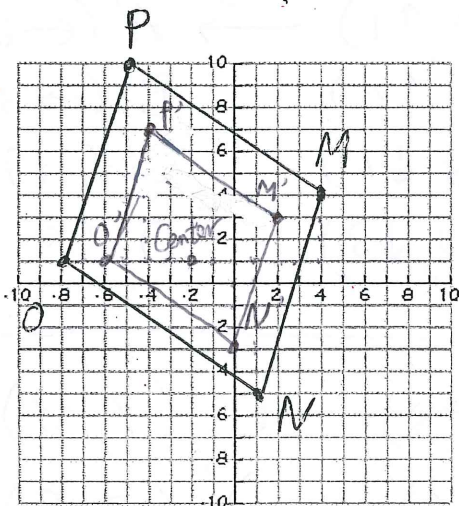
$$X(-2, 2) \xrightarrow{k=2} X'(-7, 3)$$

$$Y(1, 1) \rightarrow Y'(-1, 1)$$

$$Z(1, -2) \rightarrow Z'(-1, -5)$$

$X'(-7, 3)$
$Y'(-1, 1)$
$Z'(-1, -5)$

3. Graph the dilated image of Quadrilateral MNOP using a scale factor of  $\frac{2}{3}$  and center of dilation  $(-2, 1)$



$$M(6, 3) \xrightarrow{k=2/3} M'(2, 3)$$

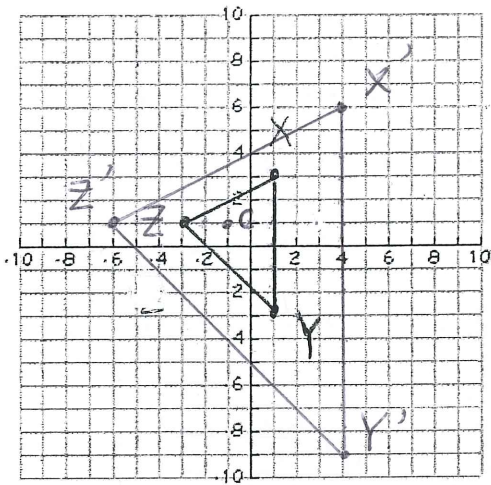
$$N(3, -6) \rightarrow N'(0, -3)$$

$$O(-6, 0) \rightarrow O'(-6, 1)$$

$$P(-3, 9) \rightarrow P'(-4, 7)$$

$M'(2, 3)$
$N'(0, -3)$
$O'(-6, 1)$
$P'(-4, 7)$

4. Graph the dilated image of Triangle XYZ using a scale factor of  $\frac{5}{2}$  and center of dilation  $(-1, 1)$



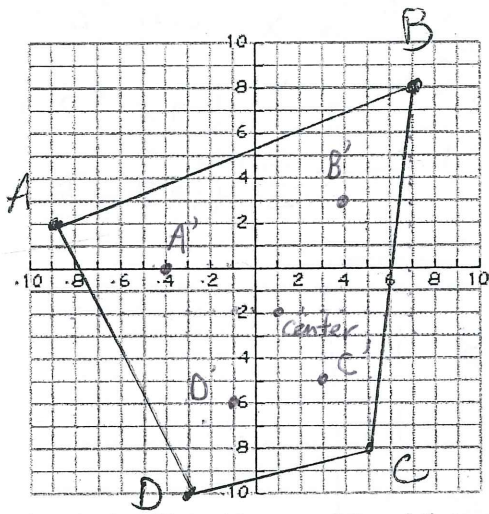
$$X(\rightarrow 2, \uparrow 6) \xrightarrow{k=\frac{5}{2}} X'(\rightarrow 5, \uparrow 15)$$

$$Y(\rightarrow 2, \downarrow 4) \rightarrow Y'(\rightarrow 5, \downarrow 10)$$

$$Z(\leftarrow 2, 0) \rightarrow Z'(\leftarrow 5, 0)$$

$X'(4, 6)$
$Y'(4, -9)$
$Z'(-6, 1)$

5. Graph the dilated image of Quadrilateral ABCD using a scale factor of  $\frac{1}{2}$  and center of dilation  $(1, -2)$



$$A(\leftarrow 10, \uparrow 4) \xrightarrow{k=\frac{1}{2}} A'(\leftarrow 5, \uparrow 2)$$

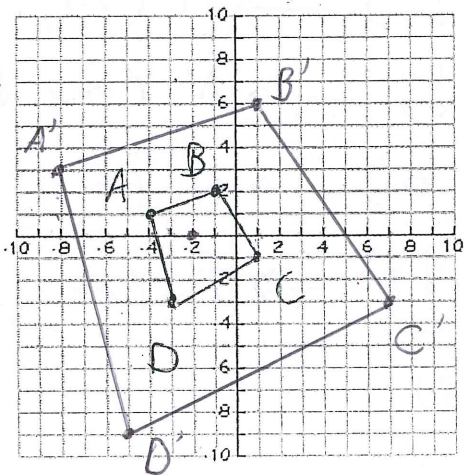
$$B(\rightarrow 6, \uparrow 10) \rightarrow B'(\rightarrow 3, \uparrow 5)$$

$$C(\rightarrow 4, \downarrow 6) \rightarrow C'(\rightarrow 2, \downarrow 3)$$

$$D(\leftarrow 4, \downarrow 8) \rightarrow D'(\leftarrow 2, \downarrow 4)$$

$A'(-4, 0)$	$C'(3, -5)$
$B'(4, 3)$	$D'(-1, -6)$

6. Graph the dilated image of Quadrilateral ABCD using a scale factor of 3 and center of dilation  $(-2, 0)$



$$A(\leftarrow 2, \uparrow 1) \xrightarrow{k=3} A'(\leftarrow 6, \uparrow 3)$$

$$B(\rightarrow 1, \uparrow 2) \rightarrow B'(\rightarrow 3, \uparrow 6)$$

$$C(\rightarrow 3, \downarrow 1) \rightarrow C'(\rightarrow 9, \downarrow 3)$$

$$D(\leftarrow 1, \downarrow 3) \rightarrow D'(\leftarrow 3, \downarrow 9)$$

$A'(-8, 3)$	$C'(7, -3)$
$B'(1, 6)$	$D'(-5, -9)$