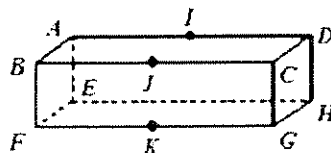


1. I can identify and define coplanar, collinear and skew.

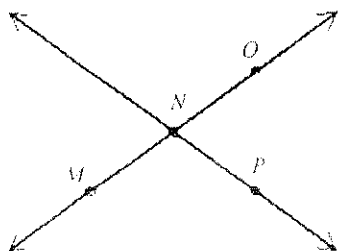
a. Are A, C and E coplanar?

b. Are A, I, D collinear?



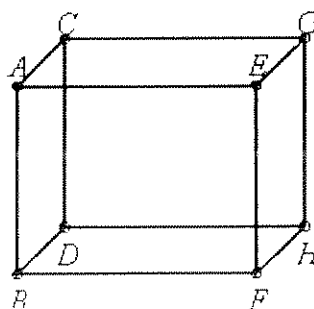
c. Are M, N and P collinear?

d. Are M, N and O collinear?



e. Are  $\overline{EF}$  and G coplanar? Y N

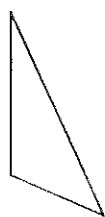
f. Are  $\overline{AE}$  and  $\overline{BD}$  skew? Y N



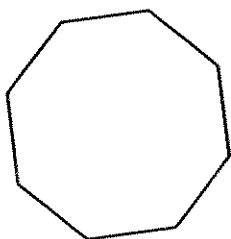
2. I can correctly name basic polygon shapes. I can recognize the difference between concave and convex polygons (also define regular polygon).

Diagram

a.



b.



c.



Polygon  
Name

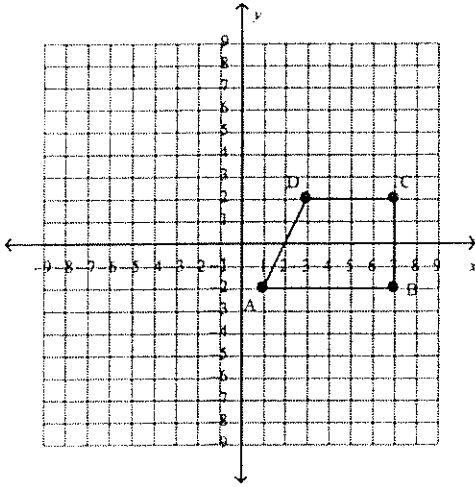
Concave or  
Convex

Regular or  
Irregular

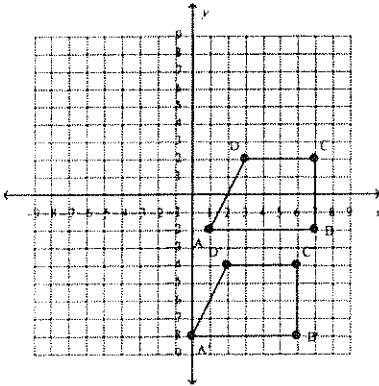

## Geometry Unit 1 Review

3. I can translate a polygon on the coordinate plane by using a rule.

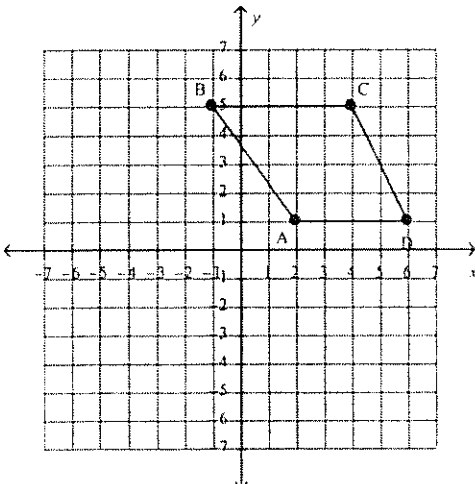
Draw and label the image by following the rule:  $(x, y) \rightarrow (x - 8, y + 5)$



4. I can write a rule to describe a given translation. (triangle ABC moves to A'B'C')

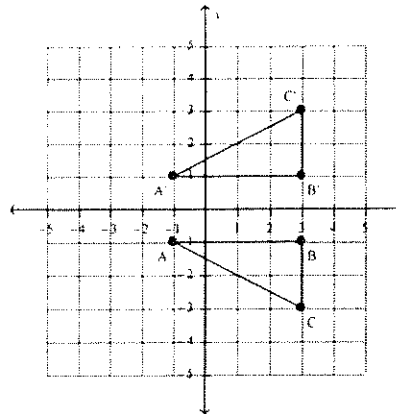
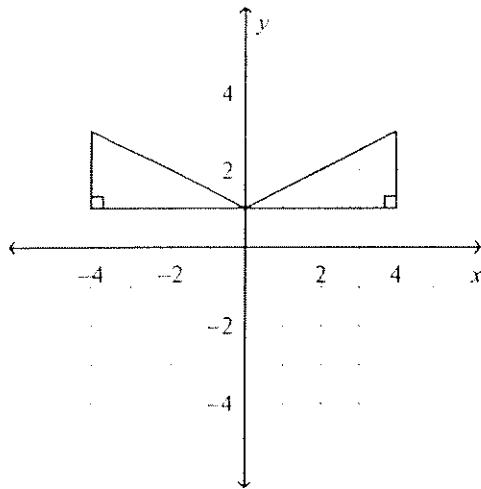


5. I can reflect a polygon across the x-axis on the coordinate plane. Highlight the line of reflection. Draw and label the image.

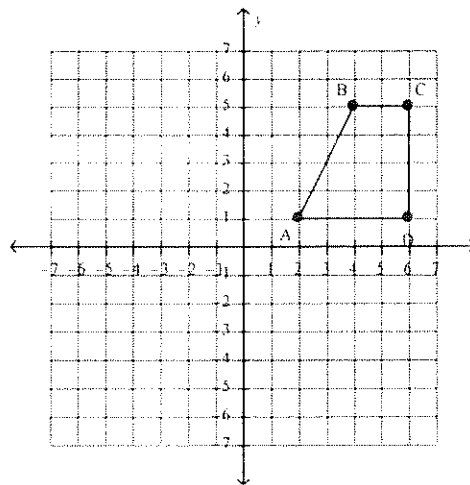


## Geometry Unit 1 Review

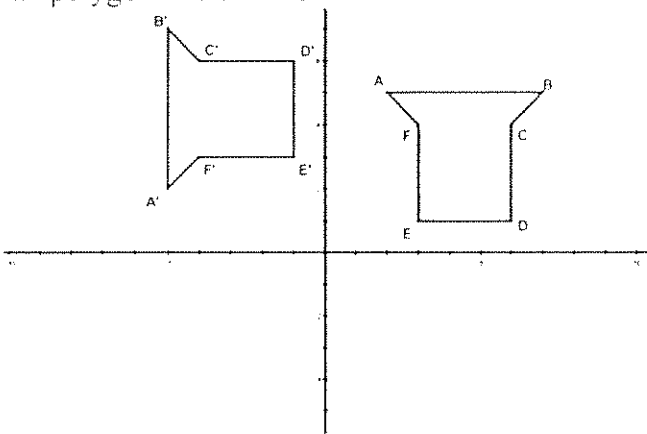
6. I can look at a given reflection and explain the transformation.  
Use a highlighter to show the line of reflection. And explain in words.



7. I can rotate an image about the origin on a coordinate plane. Rotate the figure CCW  $90^\circ$ . Draw and label the image.



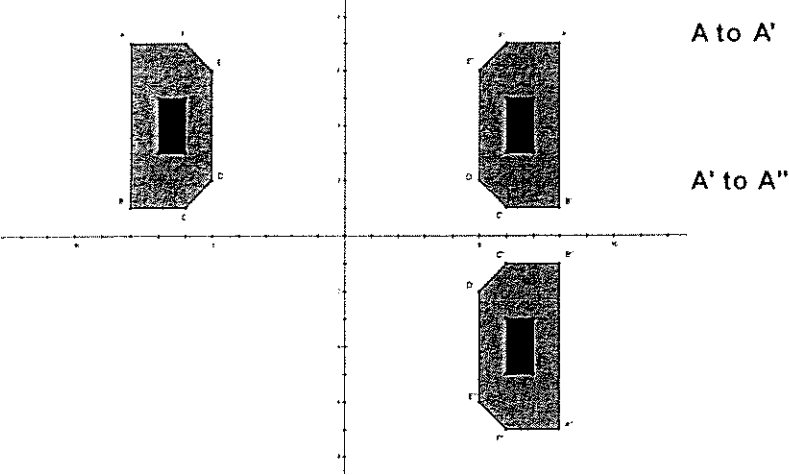
8. I can look at a given rotation and tell approximately how many degrees and the direction the polygon has been rotated.



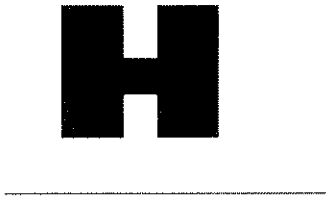
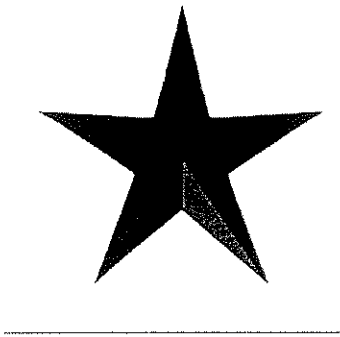
Direction \_\_\_\_\_

Distance \_\_\_\_\_

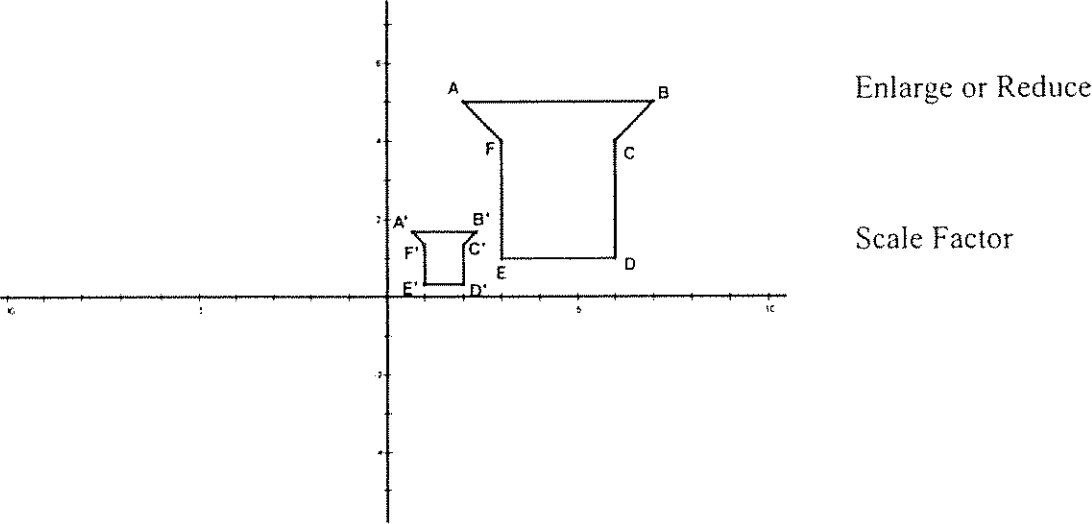
9. I can recognize and explain a composition (combination) of transformations that change an images location.



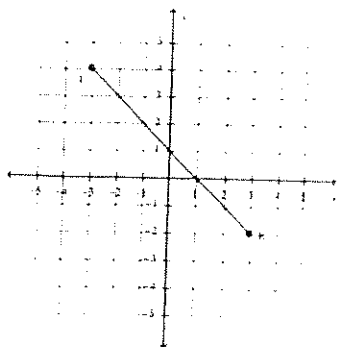
10. I can identify rotational vs. reflectional symmetry.  
Use the words Rotaional, Reflectional, Both or Neither.



11. I can recognize and explain a dilation in terms of reduction or enlargement.  
Also find the dilation (scale) factor.



12. I can use the distance formula to find the length between two points.  
 13. I can find the midpoint of a line segment.

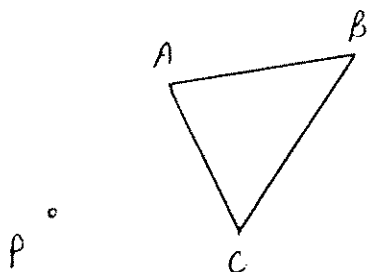


14.  $M(-2, 3)$  is the midpoint of  $\overline{AB}$ . If the coordinates of A are  $(6, -5)$ , find the coordinates of B.

15. I can correctly name an angle. And I can recognize the difference between obtuse, acute, straight and right angles.

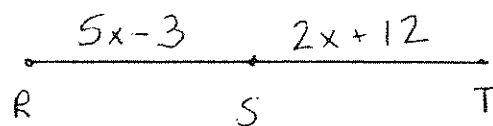
Diagram	a.	b.	c.
Name			
Classify			

16. Dilate the figure using point P and the rule  $(x, y) \rightarrow (3x, 3y)$ .



17. Use the diagram at the right. Show ALL work for all parts.

- Solve for x algebraically.
- Find RS
- Find ST
- Find RT.



S is the midpoint of  $\overline{RT}$