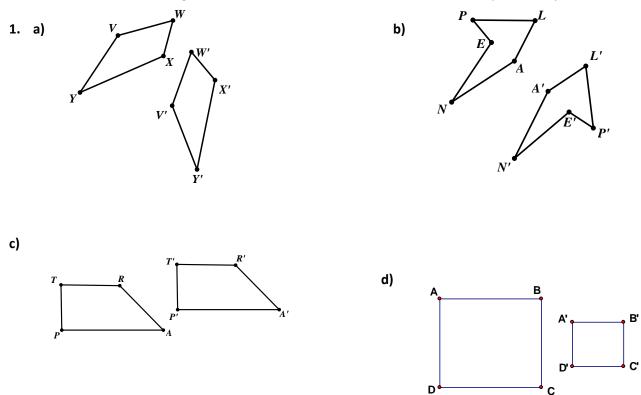
Name:	Date:	Period:	Score

Unit 7 Transformations Review

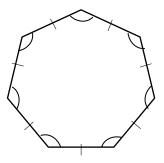
For each of the four sets of figures, decide what transformation has occurred. Explain how you know.



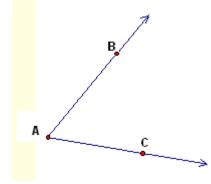
2. a. List the transformation(s) we studied in this unit that are rigid transformations.

b. List the transformation(s) that are <u>not</u> rigid transformations but create similar shapes.

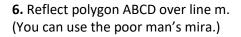
- **3.** For the *regular* polygon at the right:
 - a. Name the polygon.
 - b. Draw one diagonal on the polygon.
 - c. Is your diagonal a line of symmetry? Explain how you know.
- 4. Using a compass and straightedge, *construct* an angle bisector of the following angle.

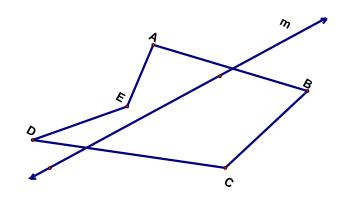


5. Using a compass and straightedge, *construct* a copy of the following angle.

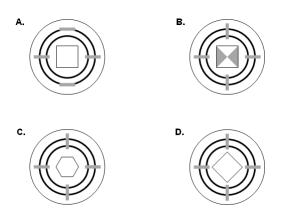


The mere imparting of information is not education. Above all things, the effort must result in making a man think and do for himself. --- Carter Godwin Woodson

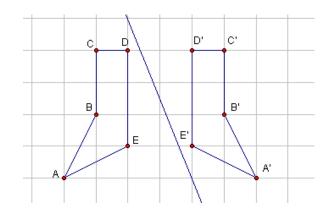




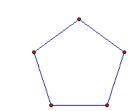
7. Which of the following have 90 degrees rotational symmetry about the center?



8. Is this the correct line of reflection? Explain why or why not. If not, draw the correct line.



9. Give the initial angle of rotation and the center of rotation for each figure below. If there is none, write none.



a.

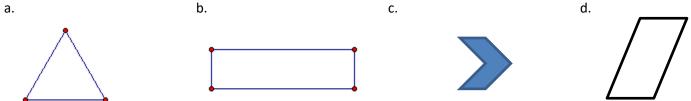


c.

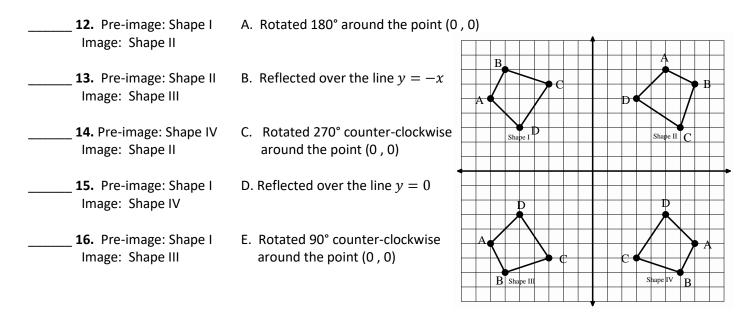


10. Draw any and all lines of symmetry for each polygon. If there aren't any write none.

b.

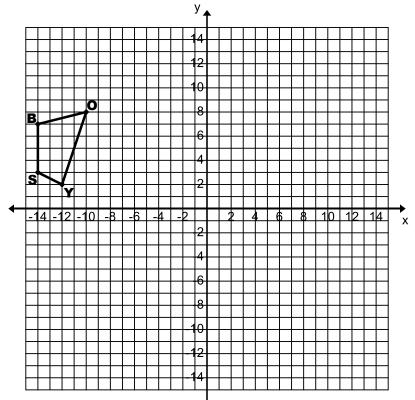


Use the diagram to <u>match</u> the Pre-Image/Image with the appropriate transformation.

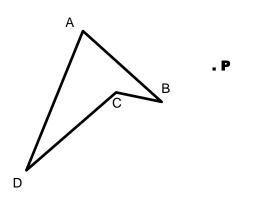


17. Rotate the pre-image BOYS 90° clockwise around the origin. Label the image B'O'Y'S'. Reflect the image B'O'Y'S' over the x-axis. Label the image B"O"Y"S".

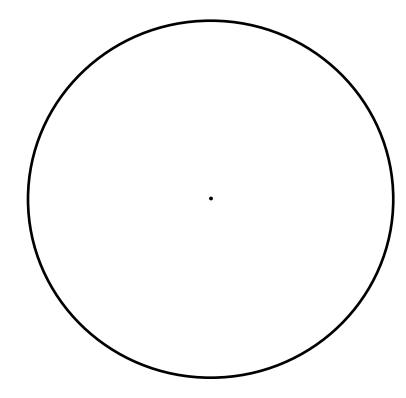
Translate B"O"Y"S" 10 units left and 6 units up. Label the image B"O"Y"S".



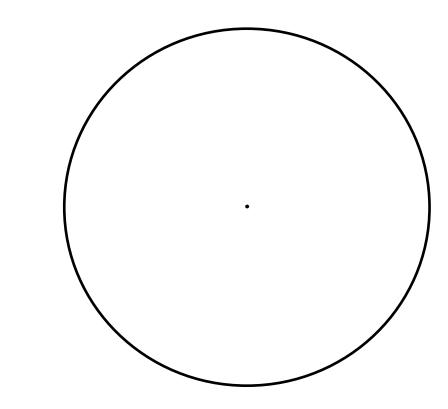
18. Use a straightedge and a protractor to rotate the pre-image ABCD 110° counter-clockwise around P. Label your image A'B'C'D'.



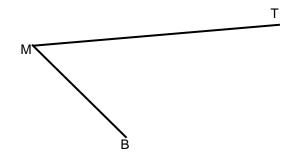
19. Construct a hexagon inscribed in this circle:



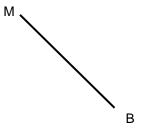
20. Construct a square inscribed in this circle:



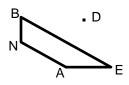
21. Construct a rhombus with side MB.



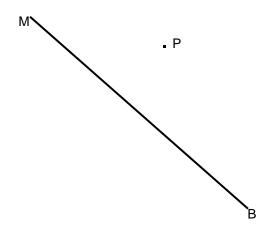
22. Construct a square with side MB.



23. Construct a dilation with scale factor 4, using point D as the center of dilation.



24. Construct a line parallel to \overline{MB} , through point P.



25. Translate the "T" in Tik Tok by vector u.

