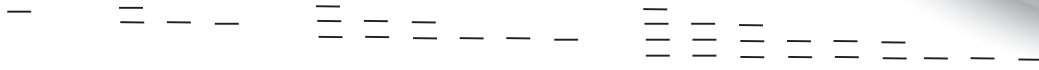


NAME _____

Module 11 Transformation of Shapes
Lesson 5 Tessellations

1. How many segments are in the sixth term of the sequence?



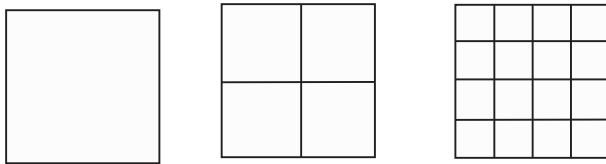
2. What is the 51st term of the sequence?



3. What letter is in the 212th position of the repeating pattern?

GEOMETRYGEOMETRYGEOMETRY...

4. The first three terms of a self-similar pattern are shown. Draw the next term.



Use the figure to create a tessellation.

- 5.

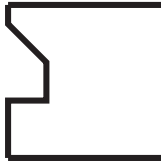


- 6.

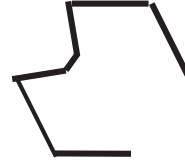


A square or hexagon is being modified into a tessellating shape. Draw the missing side. Then, copy and translate to create a tessellation.

7.

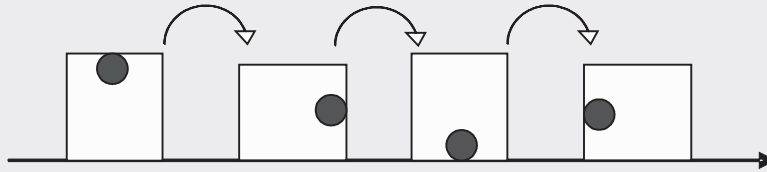


8.



Journal

- The diagram shows the first four stages of a figure being rolled along a flat surface. Explain how you can determine which figure will be in the 101st stage.

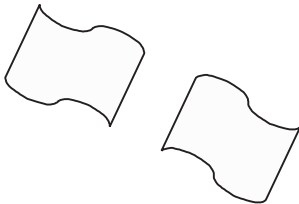


- What is the difference between a regular tessellation and a semi-regular tessellation?
- Describe three ways to create a tessellation. Provide an example with each description.

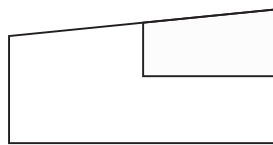
Cumulative Review

Tell if the transformation is a translation, rotation, reflection, dilation, or neither.

1.



2.



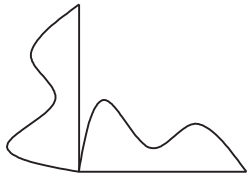
3.



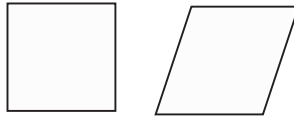
NAME _____

Module 11 Transformation of Shapes
Lesson 5 Tessellations

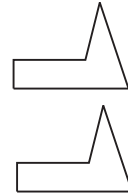
4.



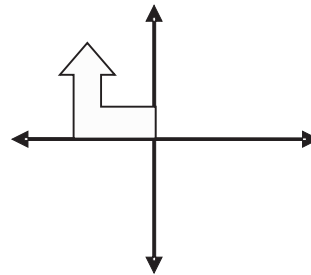
5.



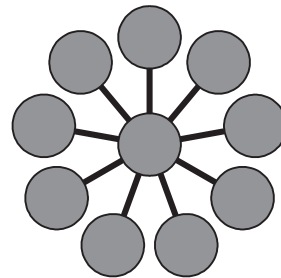
6.



7. Rotate the figure 180° about the origin.



8. Find the order of rotation for the figure at right. List the angles of rotation. Does the figure have point symmetry?



Additional Work Area