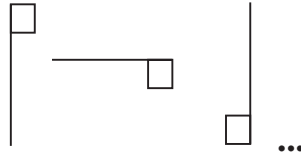


NAME _____

Module 11 Transformation of Shapes
Lesson 5 Tessellations

Set 1

- 1 Find a rule for the pattern. Then, draw the fourth term.



- 2 Draw the next Sierpinski triangle.



- 3 Write a rule for the number of shaded triangles in the n th Sierpinski triangle.

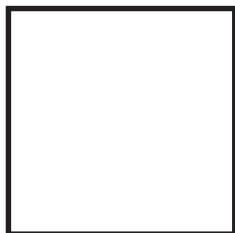
- 4 A self-similar pattern is found in the Koch snowflake as shown. Identify the rule for the next snowflake. Then, draw the fourth Koch snowflake.



Set 2



Create a tessellation by modifying two of the square's sides.



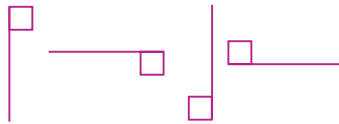
NAME _____

Module 11 Transformation of Shapes
Lesson 5 Tessellations

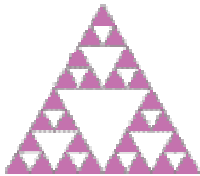
Possible Answers

Set 1

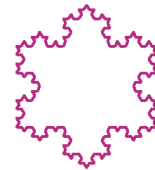
1. To get the next term in the pattern, rotate the figure 90° clockwise.



- 2.



3. There are 3^{n-1} shaded triangles in the n th Sierpinski triangle.
4. Replace the middle third of each side with two pieces of equal length.



Set 2

1. Possible answer:

