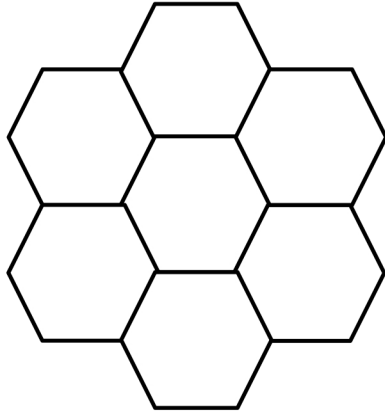Name _____   Date _____
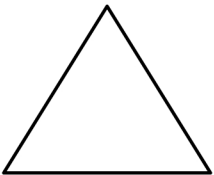
1. Samson tessellates regular hexagons to make the shape below.

    a.   Outline the perimeter of Samson's new shape with a highlighter.

    b.   Explain how Samson could use a string to measure the perimeter of his new shape.

    c.   How many sides does his new shape have?

    d.   Shade in the area of his new shape with a colored pencil.

2. Estimate to draw at least four copies of the given triangle to make a new shape, without gaps or overlaps. Outline the perimeter of your new shape with a highlighter. Shade in the area with a colored pencil.
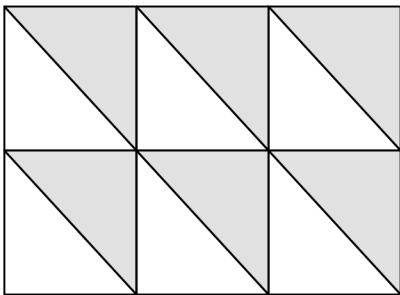
3. The marks on the strings below show the perimeters of Shyla's and Frank's shapes. Whose shape has a greater perimeter? How do you know?
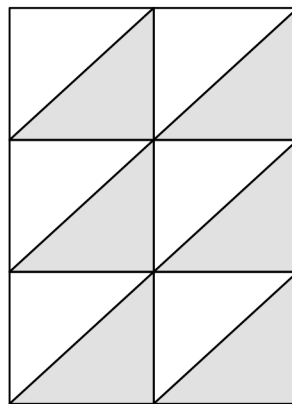
Shyla's String:

Frank's String:

4. India and Theo use the same shape to create the tessellations shown below.

India's Tessellation

Theo's Tessellation

   a. Estimate to draw the shape India and Theo used to make their tessellations.

   b. Theo says both tessellations have the same perimeter. Do you think Theo is right? Why or why not?

Answer Key

1.
   a. Shape outlined with highlighter
   b. Explanations will vary.
   c. 18
   d. Shape shaded in with colored pencil
2. Drawings will vary.
3. Frank; explanations will vary.
4.
   a. Triangle drawn correctly
   b. Yes, explanations will vary.