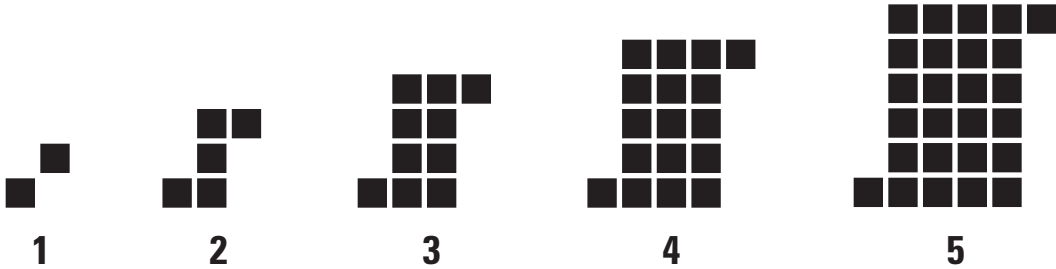


TASK

Name _____ Date _____

S-Pattern Task¹



1. What patterns do you notice in the set of figures?

2. Sketch the next two figures in the sequence.

¹ Adapted from Foreman, L.C. & Bennett, A.B., Jr. (1995). *Visual Mathematics: Course II, lessons 1-10*. Salem, OR: Math Learning Center.

3. Describe a figure in the sequence that is larger than the 20th figure without drawing it.

TASK

4. Determine an equation for the total number of tiles in *any* figure in the sequence. Explain your equation and show how it relates to the visual diagram of the figures.

5. If you knew that a figure had 9802 tiles in it, how could you determine the figure number? Explain.

6. Is there a linear relationship between the figure number and the total number of tiles? Why or why not?