

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Patterns Task

This is a group task, although you will start with Individual Think Time. Be sure that all members of your group understand one another and can explain.



Figure 1

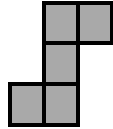


Figure 2

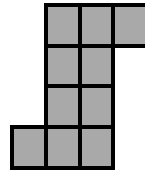


Figure 3

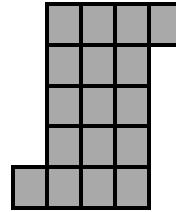


Figure 4

### Individual Think Time:

1. Study the pattern. Build or draw Figure 5.

### Group Work:

2. Explain to your group why you built Figure 5 the way you did.
3. What does Figure 100 look like? Be sure you can explain how many tiles there are and how you know using *at least two* different methods.



**Check point!** Please call a teacher over for a group quiz. Everyone should be able to explain your answer for Question 3.

**Score:** \_\_\_\_\_

### Group Product:

4. On a piece of poster paper, show and explain clearly and completely *two or more* of your methods. Make sure your names are on the group poster.

### \*\*Challenge\*\*:

With your group, write an algebraic expression to represent the pattern.