Writing Expressions to Model Patterns (Table/Pictorial → Symbolic)

Name:

Date:

Vocabulary Review:
In your own words, define each of the following vocabulary terms.

- Expression

- Additive Relationship

- Multiplicative Relationship

Apply New Learning:

1. What strategies can be used to organize data in a table?

2. How is a geometric sequence different from an arithmetic sequence?

3. Create a table of values to represent the pattern below.
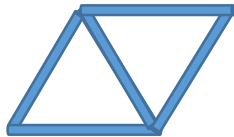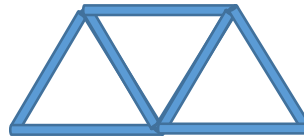
Diagram 1   Diagram 2   Diagram 3

= straw

4. Write an expression to represent the number of straws for any diagram, *d*, in this geometric pattern.

5. Create a graph of the data from the table.

6. Predict the number of straws you would need for Diagram 10.