

Writing Verbal Descriptions of Functional Relationships

Name:

Date:

Vocabulary Review:

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

- Function
- Linear Function
- Quadratic Function
- Constant
- Independent Variable
- Dependent Variable

Apply New Learning:

Using the information and data from José's Brick Pattern chart, answer questions 1 and 2.

1. What are the key differences between linear functions and quadratic functions?

2. Why is it important to mention any restrictions with the independent variable when writing a verbal description of the functional relationship?

A science experiment involves counting the number of bacterial colonies present on a petri dish every other day. At the start of the experiment, there are 50 bacterial colonies. Each time an observation is made, the number of bacterial colonies triples. At observation #1, there are 150 bacterial colonies.

3. What is the independent variable in this experiment?

4. What is the dependent variable in this experiment?

5. Write a verbal description of the functional relationship.

6. Is the function linear or quadratic?

7. Are there any restrictions in the description of the function?

8. What will be the bacterial colony count on the 6th observation?