

# Cracking the Code

NAME \_\_\_\_\_

Use your Variable Machine to answer the questions which follow.

1. What is the value of your last name? \_\_\_\_\_ What is the value of your first name? \_\_\_\_\_

What is the difference of these two values? \_\_\_\_\_

2. What is the value of each of these words?

a. variable \_\_\_\_\_

b. machine \_\_\_\_\_

c. algebra \_\_\_\_\_

d. mathematics \_\_\_\_\_

3. Find three different words whose values are each equal to 25. Record the words below.

What do you notice about the number of letters in each of these words?

4. Find three different words whose values are each equal to 36. Record the words below.

What do you notice about the number of letters in each of these words?

5. Find three different words whose values are each equal to 100. Record the words below.

What do you notice about the number of letters in each of these words?

6. Do most of the words you found have a value that is even or odd? Do you think there is a reason for this?