

# Inductive Reasoning

Bell work

## 1. Complete the following statement.

- a. \_\_\_\_\_ is a statement about what you think will happen based on the pattern you observed.
- b. One way to show that a conjecture is not true is to find \_\_\_\_\_.

## 2. Is each conjecture correct or incorrect?

- a. Every triangle has three sides.
- b. The opposite of a number is negative.

## Multiple Choice

### 3. Write the next number in the pattern: 1, 5, 25, 125 ... ..

- a. 150
- b. 625
- c. 250

### 4. What is the first number in the pattern? \_\_\_\_\_, 4, 9, 16, 25 ... ..

- a. 1
- b. 2
- c. 3

### 5. Are two numbers enough to show a pattern?

- a. *Yes*
- b. *No*

# Inductive Reasoning Bell work

## ANSWERS

1. Complete the following statement.

- a. A conjecture is a statement about what you think will happen based on the pattern you observed.
- b. One way to show that a conjecture is not true is to find a counterexample.

2. Is each conjecture correct or incorrect?

- a. Every triangle has three sides. The conjecture is correct.
- b. The opposite of a number is negative. The conjecture is incorrect. The opposite of  $-2$  is  $2$ .

## Multiple Choice

3. Write the next number in the pattern: 1, 5, 25, 125 ... ..

- a. 150
- b. 625
- c. 250

4. What is the first number in the pattern? \_\_\_\_\_, 4, 9, 16, 25 ... ..

- a. 1
- b. 2
- c. 3

5. Are two numbers enough to show a pattern?

- a. Yes
- b. No