Geometry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksheet 1.1 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_\_

Directions: Sketch the next figure in the pattern.

1)  2) 3)

Directions: Describe the pattern in the sequence of numbers. Predict the next number.

4) 113, 224, 335, 446, … 5) 5, 7, 10, 14, 19, …

 **557 25**

6) , , , , … 7) , , , , …

$\frac{9}{6}$$\frac{1}{2}$

8) 4, 0, -4, -8, … 9) 4, 9, 16, 25, …

 **-12 36**

10) 2, 5, 11, 23, … 11) 2, 3, 5, 7, 11, …

 **47 13**

Directions: The first three objects in a pattern are shown. Determine how many squares are in the next object.

12) 13)

 **16 20**

Directions: Show the conjecture is false by finding a counterexample.

14) The quotient (result from dividing) of two whole numbers is a whole number.

15) The difference of the absolute value is positive, meaning .

16) If , then .

Directions: Complete the conjecture based on the given patterns.

17) The product of an odd number and an even number is \_\_\_\_\_\_\_\_\_\_Even\_\_\_\_\_\_\_\_\_\_\_\_\_.

 

 

18) The sum of an odd number and an even number is \_\_\_\_\_\_\_\_Odd\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 

 