

**1. Continue the patterns**

a) 7, 11, 15, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_

Describe your pattern-

*I started with \_\_\_\_ and then I \_\_\_\_\_ each time.*

b) 1, 11, 21, \_\_\_\_, \_\_\_\_, \_\_\_\_

Describe your pattern-

*I started with \_\_\_\_ and then I \_\_\_\_\_ each time.*

These are examples of arithmetic sequences. What is an arithmetic sequence?

**2. Continue the patterns**

a) 2, 6, 18, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_

Describe your pattern-

*I started with \_\_\_\_ and then I \_\_\_\_\_ each time.*

b) 3, 15, 75, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_

Describe your pattern-

*I started with \_\_\_\_ and then I \_\_\_\_\_ each time.*

These are examples of geometric sequences. What are geometric sequences?

**3. Write whether the sequence is arithmetic, geometric or neither and describe the pattern.**

a) 5, 10, 20, 40 ... \_\_\_\_\_

b) 5, 6, 8, 11 ... \_\_\_\_\_

c) 5, 10, 15, 20 ... \_\_\_\_\_

