Homework: Patterns Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Arithmetic and Geometric) Block \_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_

Draw the next term in the sequence.

1.  2.

Write the next 3 terms in each sequence.

**3.** 3, 5, 7, 9, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **4.** 34, 31, 28, 25, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5**. 2, 6, 18, 54, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **6.** 12, 20, 28, 36, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7**. 54, 53, 52, 51, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **8.** 7, 8, 10, 13, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For the following:

* Write arithmetic, geometric or neither
* Write the common difference or common ratio
* Write the next 3 terms

**9.** 4, 7, 10, 13, \_\_\_\_, \_\_\_\_, \_\_\_\_ **10.** 2, 4, 8, 16, \_\_\_\_, \_\_\_\_, \_\_\_\_

**11**. 19, 29, 39, 49, \_\_\_\_, \_\_\_\_, \_\_\_\_ **12.** 8, 11, 14, 17, \_\_\_\_, \_\_\_\_, \_\_\_\_

**13**. 5, 10, 20, 40, \_\_\_\_, \_\_\_\_, \_\_\_\_ **14**. 27, 9, 3, 1, \_\_\_\_, \_\_\_\_, \_\_\_\_

**15**. 64, 55, 46, 37, \_\_\_\_, \_\_\_\_, \_\_\_\_ **16**. 2.5, 3.0, 3.5, 4.0, \_\_\_\_, \_\_\_\_, \_\_\_\_