

Name: _____

Sequences Worksheet

A. Read the questions carefully and write True/False or T/F for each statement.

1. Is this sequence shown an Arithmetic Sequence 5, 10, 15, 20, 25, ...? _____
2. Is this sequence shown a Geometric Sequence 7, 14, 21, 28, ...? _____
3. Is this sequence shown a Cube Number Sequence 27, 64, 125, 216 ...? _____
4. Is this sequence shown a Square Number Sequence 15, 24, 30, 42 ...? _____
5. Is this sequence shown a Triangular Number Sequence 4, 9, 16, 25, 36 ...? _____

B. Read the questions carefully and solve the following questions based on the process learned in class.

6. Use the sequence given to complete each part. 24, 50, 76, 102, 128 ...

- a) What type of sequence is shown above? _____
- b) What is the common difference (d)? $d =$ _____
- c) What expression can be used to represent this sequence?

- d) What is the 10th term (a_{10}) using your expression from question c?

7. Use the sequence given to complete each part. 15, 360, 8640, 207360, ...

- a) What type of sequence is shown above? _____
- b) What is the common ratio (r)? $r =$ _____
- c) What expression can be used to represent this sequence?

- d) What is the 5th term (a_5) using your expression from question c?
