

NAME _____

DATE _____

PERIOD _____

PRE-ALGEBRA CHAPTER 1.1 SEQUENCES

Write the next 5 terms of each of the following sequences:

1. 1, 4, 7, 10, _____, _____, _____, _____, _____

2. 1, 3, 6, 10, _____, _____, _____, _____, _____

3. 2, 5, 9, 14, _____, _____, _____, _____, _____

4. 1, 4, 9, 16, _____, _____, _____, _____, _____

5. 2, 5, 10, 17, _____, _____, _____, _____, _____

6. 1, 4, 9, 16, _____, _____, _____, _____, _____ (do it a different way than #4)

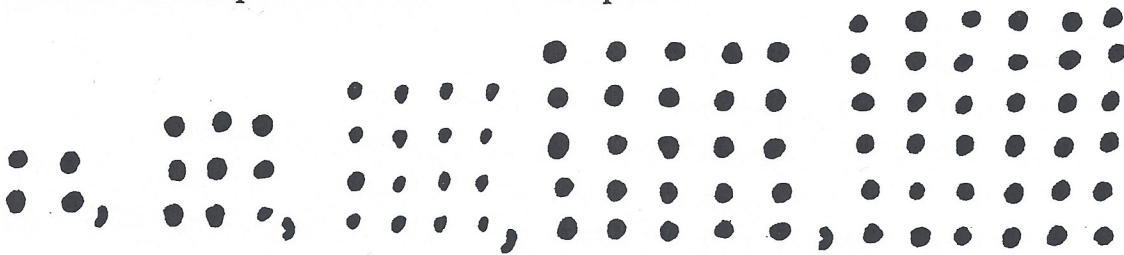
7. 1, 8, 27, 64, _____, _____, _____, _____, _____

Write the next five terms of the famous Fibonacci Sequence:

1, 1, 2, 3, 5, _____, _____, _____, _____, _____

THE SQUARE SEQUENCE

Extend this dot pattern to two or more squares:

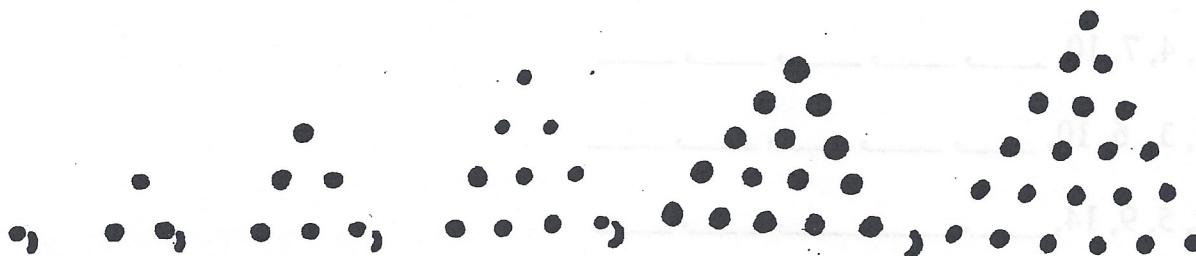


The number of dots in each square forms a sequence of numbers. Write the first 10 terms in this sequence:

Describe the pattern:

THE TRIANGLE SEQUENCE

Extend this dot pattern to two more triangles:



The number of dots in each triangle forms a sequence of numbers. Write the first 10 terms in this sequence:

What is the pattern?

Add pairs of numbers that are next to each other in the sequence. What do you notice?