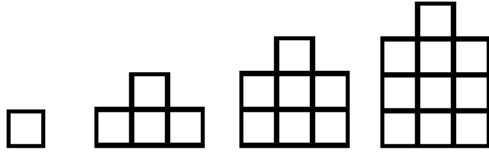Name: _____

Patterns:

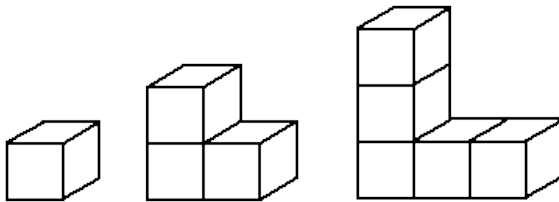1. Draw the next figure in the sequence:

Moving from left to right, each figure above has _____ more squares than the one before it.

You can represent the number of blocks in the figures (going from left to right) as a sequence of numbers:

1, 4, 7, 10 . . .   What are the next three numbers in the sequence?

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

2. What would the next two figures in the sequence of blocks below look like?

We can represent the number of blocks in each figure (going from left to right) by a sequence of numbers. Fill in the next four numbers in the sequence.
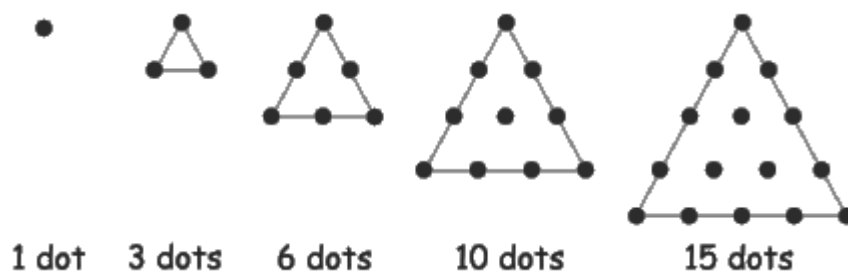
1, 3, 5, _____ , _____ , _____ , _____ . . .

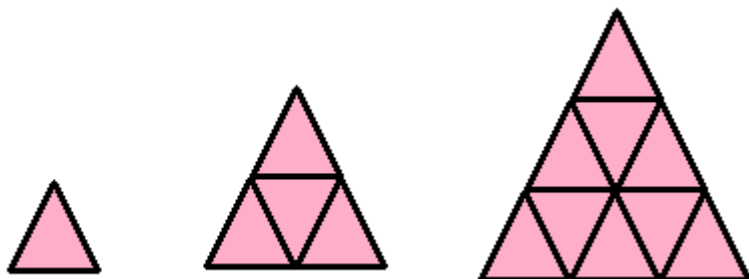Each number in the sequence is _____ more than the number before it.

3. How many dots in the next figure of this sequence? _____

1 dot   3 dots   6 dots   10 dots   15 dots

How many dots in the figure after that? _____

4. How many *small* triangles in the next figure in this sequence:

The number of small triangles in the figures can be represented by a sequence of numbers. What is the sequence?

_____ , _____ , _____ , _____ . . .

What is the fifth number in the sequence? _____

What is the sixth number? _____

Do you see a pattern? _____ How could you easily figure out any number in the sequence?