

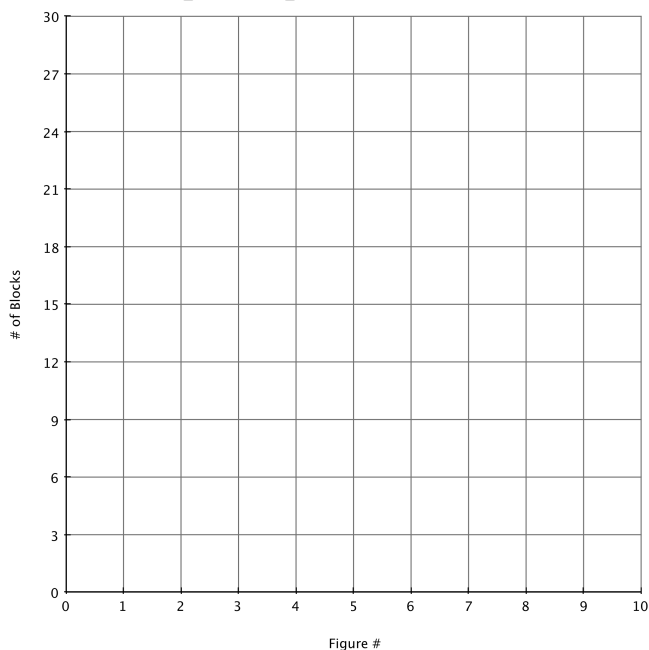


# Growing Patterns Analysis

**Task 1:** Fill in the following table:

Figure #	1	2	3	4	5	6	10
# of blocks							

**Task 2:** Graph the points shown in the table above.



### Task 3: Analysis Questions

- 1) How is the pattern (the blocks/pictures) growing?
- 2) What do you notice about the table? How are the numbers changing?
- 3) What do you notice about the graph?

4) There will be \_\_\_\_\_ total pattern blocks will you need in the 10<sup>th</sup> figure because \_\_\_\_\_.

5) How many total pattern blocks will you need in the 20<sup>th</sup> figure? Why?

6) There will be \_\_\_\_\_ total pattern blocks will you need in the 100<sup>th</sup> figure because \_\_\_\_\_.

7) How many total pattern blocks will you need in the n<sup>th</sup> figure? Why?

8) Figure number \_\_\_\_\_ has 60 blocks. I know this because \_\_\_\_\_.

9) What figure number has 81 blocks? Explain your reasoning.