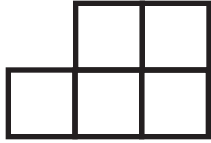
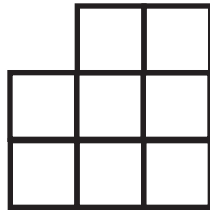


Piles of Cubes II

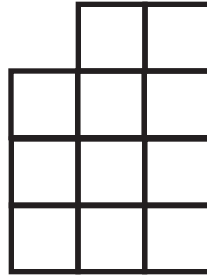
1. Follow the pattern to build the next three piles.



Pile 1



Pile 2



Pile 3

2. Use the piles and cubes to complete the table.

Pile Number	Number of Cubes
1	5
2	8
3	11
4	
5	
6	

3. Answer the following questions.

- How many cubes would there be in the 10th pile?
- The 20th pile?
- How do you know?

4. Use words to describe how to find the number of cubes in the 100th pile.

- If p is the pile number, then how many cubes will be in p piles?
- Think: What are you doing to the pile number to get the number of cubes?

5. Use the rule that you wrote in question number 4 above to find out how many cubes would be in pile 15.

New Terminology:

p is called a variable.

The rule you wrote is called an algebraic expression.