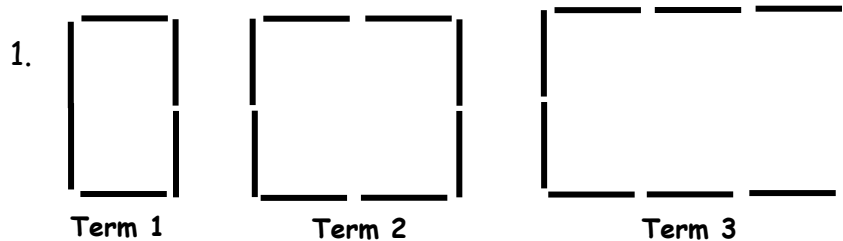


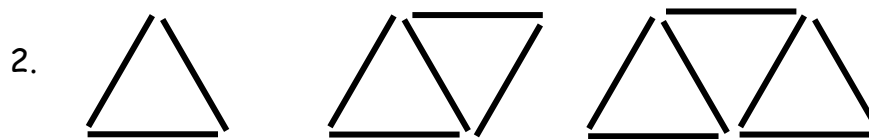
Toothpick Problems

Do these steps for Question 1 and Question 2.

- Copy the pattern into your notebook.
- Extend the pattern to Term 6.
- Copy and complete the **Table**.
- Write the rule in **English**.
- Write the rule as an **Equation**.

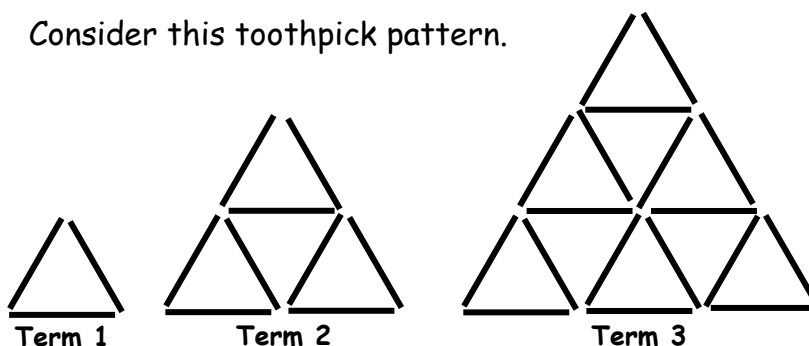


Term	Perimeter
1	
2	
3	
4	
5	
6	
120	
	88



Number of Triangles	Number of Toothpicks
1	
2	
3	
4	
5	
6	
120	
	88

3. Consider this toothpick pattern.



Term Number	Number of Triangles
1	
2	
3	
4	
5	
6	
100	
	625

- How many triangles in term 4? (DON'T draw it. Look for a pattern)
- Copy and complete the table.
- Write the rule for the number of toothpicks in English.
- Write the rule for the number of toothpicks as an Equation.