

Rule of 4 Link Sheet

Communicating what we know about: Patterns

Pattern

Alyssa created the pattern shown below using toothpicks.

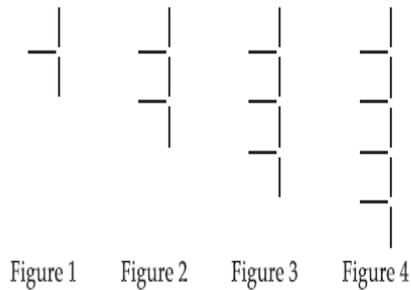


Table of Values

Complete the table to show how many toothpicks are needed to build each figure.

Figure	Number of Toothpicks
1	
2	
3	
4	
5	

Sketch

The pattern continues as shown.
Sketch Figure 5 below:

Explain and Use the Pattern

Knowing that the pattern continues, determine how many toothpicks would be needed to make the eighth (8th) pattern. Show/explain your work.

* Pattern adapted from Pennsylvania Sample Assessment Items Grade 5 Test