

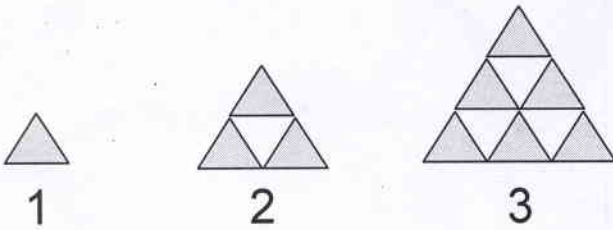
# Triangle Tribulation

Name: \_\_\_\_\_

Per: \_\_\_\_\_

Date: \_\_\_\_\_

The triangles below are formed by individual toothpicks.



A. Draw the next two triangles in the sequence.

B. What patterns do you notice?

C. Create a table relating sequence (or term) number to:

1. The number of small triangles
2. The number of perimeter toothpicks
3. The number of total toothpicks

D. What number patterns do you notice in your table?

Describe the patterns in words.

Try to describe the number patterns in an equation using  $n$  (sequence number) as the variable.

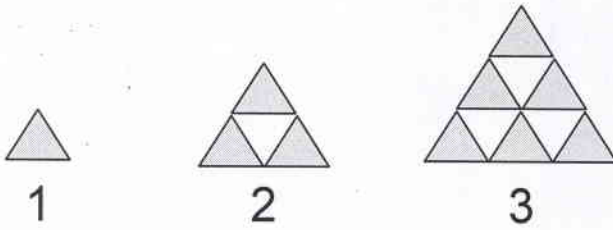
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1. The number of small triangles
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Sequence Number (n)	1	2	3	4	5
Number of single triangles					
Number of perimeter toothpicks					
Total number of toothpicks					

D. What number patterns do you notice in your table?

Describe the patterns in words.

Try to describe the number patterns in an equation using  $n$  (sequence number) as the variable.