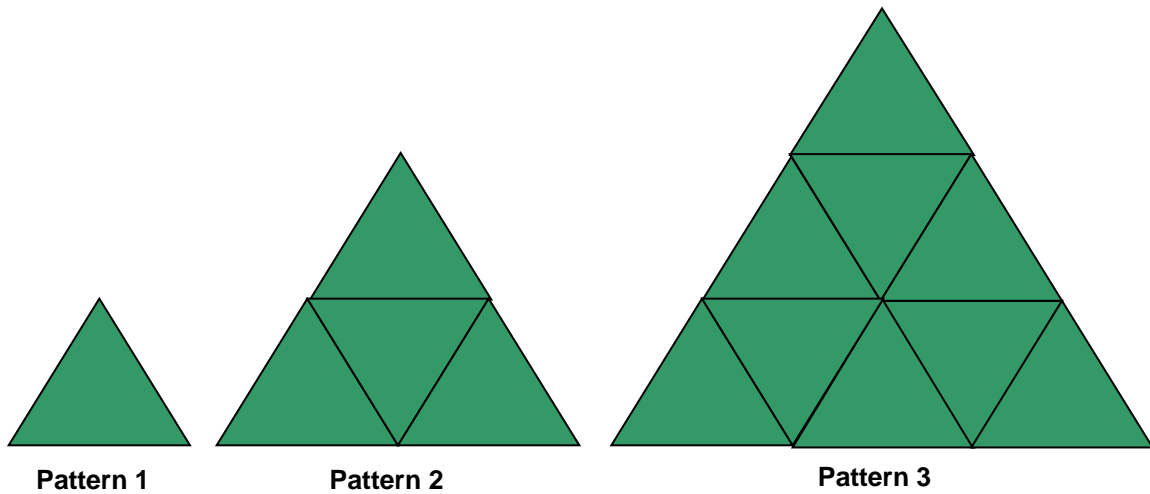


## Tri-Triangles

### Level C

Anne uses triangles to make the following patterns:



The pattern continues in the same geometric design.

Draw Pattern 4. How many triangles are needed?

How many triangles are needed to construct Pattern 7?

How many triangles are needed to construct Pattern 16?

Explain how you determined your rule.

Write a rule to find the number of triangles needed for the  $n$ th pattern. Explain your rule.

Suppose a pattern had 2,025 triangles. What is the pattern number?

Explain.



## Tri-Triangles

### Manipulatives

