

HINGED

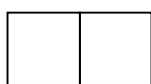
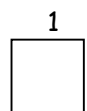
Use the space below to draw additional shapes and record their perimeters. For example, one triangle has a perimeter of three units.

When an identical triangle is "hinged" onto the first, the perimeter becomes four units.

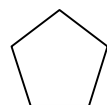
Triangles:



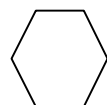
Squares:



Pentagon:



Hexagon:



Use the patterns you discover to complete this table.

Number of Polygons	Perimeter of Triangles	Perimeter of Squares	Perimeter of Pentagons	Perimeter of Hexagons
1	3	4	5	6
2	4			
3				
4				
5				
10				
n				

EXTRA CHALLENGE:

What rule could be used to find the perimeter of n hinged polygons when each polygon has s sides?