

Interior Angles in Polygons

Complete the following chart as you go through the calculator activity. Look for a pattern!!

Polygon	Number of Sides	Number of Triangles	Total Interior Degrees
Triangle			
Rectangle			
Pentagon			
Hexagon			
Heptagon			
Octagon			
n-gon	n		

1. How many degrees are in ONE triangle? _____
2. How many total degrees would be in TWO triangles? _____
3. What is the relationship between the number of non-overlapping triangles in a polygon and total degrees?
4. Use the pattern you found to calculate the number of total degrees in a polygon with:
 - a. 20 sides
 - b. 52 sides