Name: _____

On the back, draw the polygons. Then draw the triangles that can be created by connecting the vertices. Fill in the chart.

	NAME OF POLYGON	TRIANGLE	QUADRILATERAL	PENTAGON	HEXAGON	HEPTAGON	OCTAGON
NUMBER OF SIDES							
NUMBER OF TRIANGLES							
SUM OF INTERIOR ANGLES							

Using this information, can you derive a formula to find the sum of the interior angles for an n-gon?

Triangle:

Quadrilateral:

Pentagon:

Hexagon:

Heptagon:

Octagon: