How Many Triangles?

Create the following polygons and determine how many triangles you can divide each of them into, with lines only from one vertex, in order to determine the sum of their interior angles. Show your work and include a detailed description of what you would do.

1. Pentagon

How many triangles can you divide a pentagon into? Try it!

What is the total sum of the angles in a pentagon?

How Many Triangles?

2. Hexagon

How many triangles can you divide a hexagon into? Try it!

What is the total sum of the angles in a hexagon?