

INSPECTING INTERIOR ANGLES

Measure the Angles

Go to k20.ou.edu/7g and follow the directions to complete the GeoGebra activity. Record your observations and complete the table below.

Name of Polygon	Sketch of Polygon	Number of Sides	Sum of Interior Angles
Triangle			
Quadrilateral			
Pentagon			
Hexagon			
Heptagon			
Octagon			
Nonagon			
Decagon			

Find the Pattern

Look for patterns in the data you collected. Use this information to predict the sum of the measure of interior angles of a 13-gon and explain your reasoning.

What type of reasoning did you use to come to this conclusion? How do you know?

Use the Facts

Now navigate to the “Use the Facts” portion of the GeoGebra activity and follow the directions.

Using this new information, write your prediction below and show your work.

What type of reasoning did you use to come to this conclusion? How do you know?