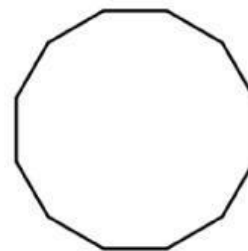
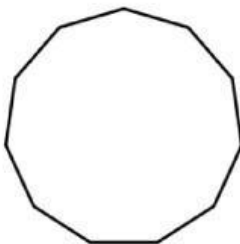
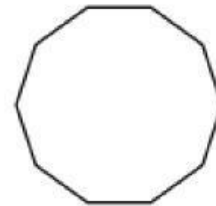
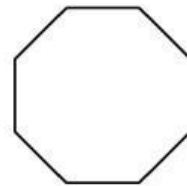
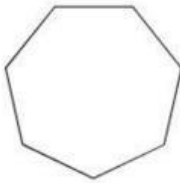
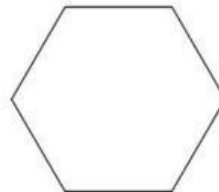
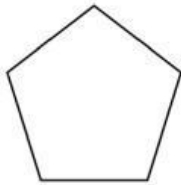
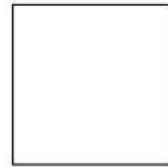
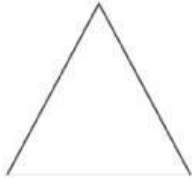


Polygon Worksheet

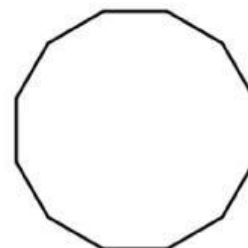
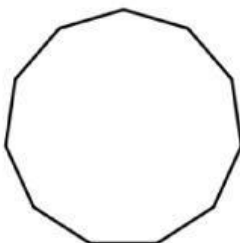
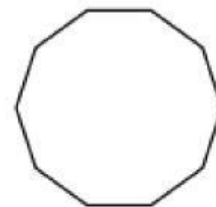
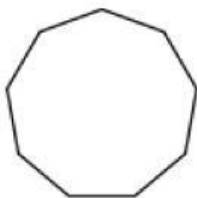
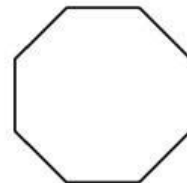
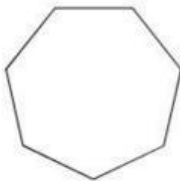
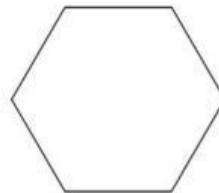
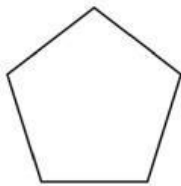
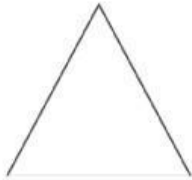
For each shape below: 1) Determine the number of **diagonals** (*should create star design*)
2) Determine each shape's **proper name**



L15.1 Polygons, Diagonals, and Angle Sums

Date: _____

For each shape below: 1) Determine the number of **triangles** (*triangles should not overlap*)
2) Find the **sum of the interior angles**



L15.1 Polygons, Diagonals, and Angle Sums

Date: _____

I. Polygon worksheet

1. To the right of each figure, write its proper name.
2. Pick a vertex and then draw the diagonals to all non-consecutive vertices.

II. Chart

1. Fill in the chart below:

Name of polygon	# of sides	# of diagonals	# of triangles	Sum of angles
Triangle				
Quadrilateral				
Pentagon				
Hexagon				
Heptagon				
Octagon				
Nonagon				
Decagon				
Hendecagon				
Dodecagon				
N-gon (any number of sides – generalization)				

