8.1 Find Angle Measures in Polygons

**Polygon**
- figure made of segments

**Diagonal**
- Segment that joins ___________ ___________

All polygons can be _________ into _______
- The sum of the angles of a triangle is _______
- For the __________, multiply that by ___

**Polygon Interior Angles Theorem**

*Sum of the __________ of the __________ angles of a ______ is ___________

The coin is a regular 11-gon. Find the sum of the measures of the interior angles.

The sum of the measures of the interior angles of a convex polygon is 1440°. Classify the polygon by the number of sides.

Find $m\angle T$
Polygon Exterior Angles Theorem

Sum of the _____________ of the ___________ angles of a ___________ polygon _______

What is the measure of an exterior angle of a regular pentagon?

What is the measure of an interior angle of a regular pentagon?

Assignment: 510 #2-34 even, 40-46 even = 21