

ACTIVITY #2

Name: _____

For use with pages 14–15 in the January 10, 2011, issue of Scholastic *MATH* Magazine.

Some Sums of Interior Angles

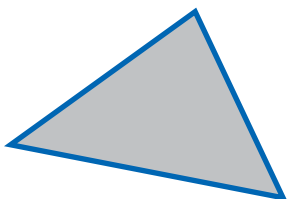
You know which angles are acute, which are right, and which are obtuse. But what about the measures of angles inside polygons? What do they add up to? It's easy to figure it out, with a simple formula:

$$\text{SUM OF A POLYGON'S INTERIOR ANGLES (in degrees)} = 180^\circ(n - 2)$$

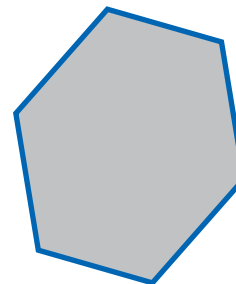
where n = polygon's number of sides

Let's find the sum of the interior angles for some common polygons.

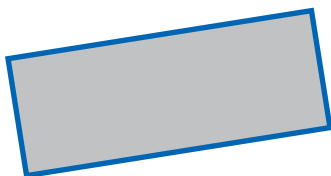
1 Triangle =



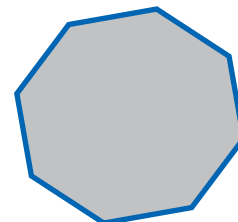
4 Hexagon =



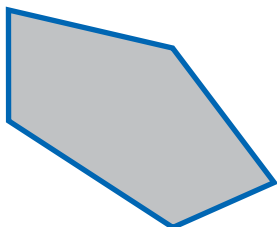
2 Rectangle =



5 Octagon =



3 Pentagon =



BONUS: A polygon whose interior angle measures had a sum of 341,100 degrees wouldn't be very common. How many sides would that polygon have?

(Take away the comma and you'll know the year of the first U.S. comic book!)