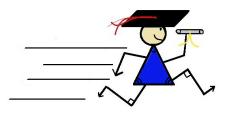
POLYGON SMART CARD

Volume 7, Chapter 4

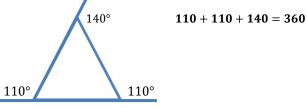
1. The sum of the measures of the interior angles of a polygon having n sides is 180(n-2).

 $180^{\circ}(6 \ sides - 2) = 720^{\circ}$



LearnMathFastBooks.com

The sum of the measures of the exterior angles of any polygon (one exterior angle at a vertex) is 360.



60°

3. The central angles of regular polygons are congruent.

4. The measure of the central angle of a regular polygon is equal to 360° divided by the number of sides on the polygon.

$$360 \div 8 = 40^{\circ} \longrightarrow$$

5. An apothem of a regular polygon is the perpendicular bisector of the side to which it is drawn.



- 6. An apothem bisects the central angle determined by the side to which it is drawn.
- 7. The radii of a regular polygon bisect the interior angles of the regular polygon.
- 8. The area of a regular polygon is equal to one half the product of the length of an apothem and its perimeter.

Area of a Regular Polygon $=\frac{1}{2}$ APOTHEM X PERIMETER

