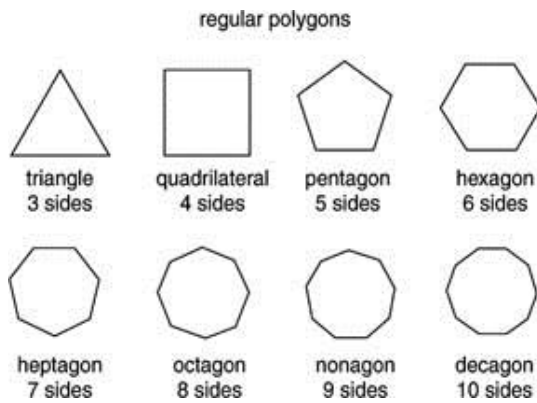


Math Tips: Plane (2D) Geometry

Key Terms:

- **Polygon:** Any flat (2D) shape with straight sides. Examples: triangle, rectangle
- **Regular Polygon:** A polygon with all sides the same length and all angles the same size.



# Sides	Regular Polygon
3	Equilateral Triangle
4	Square
5	Pentagon
6	Hexagon
7	Heptagon
8	Octagon
9	Nonagon
10	Decagon

- **Area:** The space covered by a shape.
- **Perimeter:** The distance around the edge of a shape
- **Circumference:** The distance around the edge of a circle
- **Diameter:** The distance across the center of a circle
- **Radius:** The distance from the center of a circle to the edge (also $\frac{1}{2}$ of diameter)
- **Pi:** The ratio of a circle's circumference to its diameter (approximately 3.14)

Handy Calculations (Grades 3-5)

For any shape: **Perimeter** = Sum of the length of all sides

For any rectangle: **Area** = Length x Width

For any circle: **Circumference** = Pi x Diameter (where Pi = 3.14)