## FM Geometry Vocabulary/Properties/Postulates//Theorems for Chapter 4

Congruent Figures - Corresponding Parts of Congruent Figures are Congruent CPCTC
Included Side/Angle Median Altitude Perpendicular Bisector

SSS Congruence Postulate SAS Congruence Postulate ASA Congruence Postulate
AAS Congruence Theorem HL Congruence Theorem
Parts of an Isosceles Triangle - Base, Legs, Vertex, Base Angles
Base Angles Theorem: Two sides of a triangle are congruent if and only if the angles opposite those sides are congruent.

Thrm: An equilateral triangle is also equiangular.
Thrm: An equiangular triangle is also equilateral.

Thrm: An equilateral triangle has three $60^{\circ}$ angles.
Thrm: The bisector of the vertex angle of an isosceles triangle is perpendicular to the base at its midpoint.
(The bisector of the vertex angle of an isosceles triangle is the $\perp$ bisector of the base.)
Perpendicular Bisector Theorem: A point lies on the perpendicular bisector of a segment if and only if the point is equidistant from the endpoints of the segment.
$2^{\text {nd }}$ Angle Bisector Theorem: A point lies on the bisector of an angle if and only if the point is equidistant from the sides of the angle.

