## **H.Geometry - Chapter 1 – Definition Sheet**

	Section 1.4
Polygon	A polygon is a closed plane figure, formed by connecting
Parts of a polygon: Sides	segmentsforming polygons.
Vertices	points where sides intersect.
Angles	Formed by 2 <u>intersecting</u> sides.
Diagonal	A line segment that connects two <u>non-consecutive</u> vertices.  why is this line segment not a diagonal?
Convex Polygons	Polygon in which no segment connecting any two vertices is <u>autside</u> the polygon.
Concave Polygons	The opposite of convex polygons.
Classifying Polygons	3 sides = Triangle 4 sides = Avadrilatoral 5 sides = Pentagon 6 sides = hexagon 7 sides = heptagon n-sides = n-qon  8 sides = actogon 9 sides = nonagon 10 sides = decagon 11 sides = undecagon 12 sides = do decagon

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Special Parts of polygons:	В
Consecutive Vertices	The endpoints of one side ( <u>Vertices next to each</u> ) (A,B/C,D)  other
Consecutive Sides	Sides sharing a common endpoint ( <u>sides next to each other</u> ) E
Consecutive Angles	Two angles that share a common side (angles next to each other)
Naming a Specific Polygon	List by consecutive vertices, in order (Pantagon CDEAB)
Naming a Triangle	Use the symbol in front. c ACAT Name it )  ACAT Name it )
Congruent Polygons	Polygons are congruent IFF corresponding sides are and corresponding angles are
	Order of the vertices should show the correspondence. A ABC ≅ △ DEF
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Perimeter of a polygon	The SUM of the lengths of it sides.
Equilateral Polygon	All sides are <u>equil</u> in measure (all sides are <u>congruent</u> = ).
Equiangular Polygon	All angles are <u>equal</u> in measure (all angles are <u>congruent</u> ).
Regular Polygon	Has all <u>Sides</u> equal in measure and all <u>orgles</u> equal in measure. (It is <u>equilateral</u> and <u>equilagular</u> ).
	E-H