

Content and Language Objectives

Students will define and classify polygons and related terms of polygons after

- a.) taking notes on different characteristics of polygons
- b.) classroom discussions over what we know about polygons

Warm-Up.

$$(3x+4) - (2x +7) = 180$$

Solve for 'x'

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We classify a polygon by the number of sides it has. Familiar polygons have specific names listed in the table below. The ones without specific names are called  $n$ -sided polygons, or  $n$ -gons.

Sides	Name
3	Triangle
4	Quadrilateral
5	Pentagon
6	Hexagon
7	Heptagon
8	Octagon
9	Nonagon
10	Decagon
11	Undecagon
12	Dodecagon
$n$	$n$ -gon

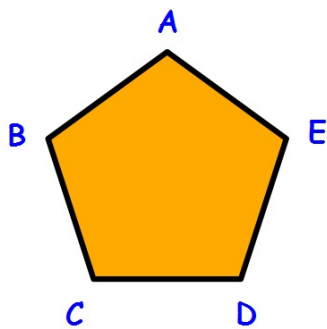
Example: A 25 sided polygon is a 25-gon

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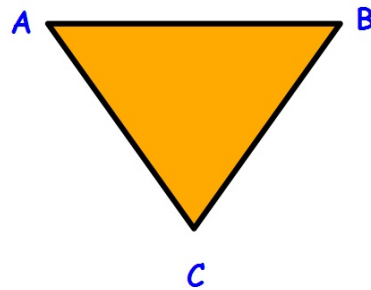
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To name a polygon, list the vertices in consecutive order



Name the  
Pentagon: \_\_\_\_\_



Name the  
Triangle: \_\_\_\_\_

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Diagonal	A diagonal of a polygon is a line segment that connects two nonconsecutive vertices
Convex	A polygon is convex if no diagonal is outside the polygon
Concave	A polygon is concave if at least one diagonal is outside the polygon
Congruent Polygons	Two polygons are congruent polygons if and only if they are exactly the same size and shape.

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Equilateral Polygon	All sides in the polygon have equal length
Equilangular Polygon	All the angles in the polygon have equal measure
Regular Polygon	A regular polygon is both equilateral and equilangular
	CLASSWORK: PAGE 56-57; #1-14, 17-19  EXIT TICKET AND HOMEWORK

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