
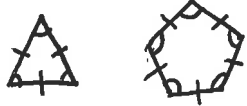

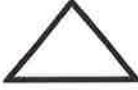






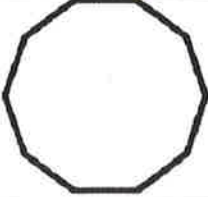


Vocabulary	Definition	Example
<b>Polygon</b>	A closed figure with straight sides (no curves) and no intersecting lines.	
<b>Regular Polygon</b>	A polygon with equal sides and angles.	
<b>Interior Angles</b>	An angle inside a polygon.	

Not polygons  


## Interior Angles of Polygons

Name of polygon	Figure	Number of sides	Number of triangles	Sum of interior angles
A Triangle		3		180
A Quadrilateral		4	2	360°
A Pentagon		5	3	540°
A Hexagon		6	4	720°
A Heptagon		7	5	900°
A Octagon		8	6	1,080°
A Nonagon		9	7	1,260°
A Decagon		10	8	1,440°
n-sided	XXXXXX	n	n-2	(n-2) · 180

Write a rule to find the sum of interior angles for any polygon: \_\_\_\_\_

Exercise: Using the rule above, find the sum of interior angles of the given polygon

1. A quadrilateral \_\_\_\_\_
2. A pentagon \_\_\_\_\_
3. An octagon \_\_\_\_\_
4. A polygon with 11 sides \_\_\_\_\_
5. A polygon with 15 sides \_\_\_\_\_