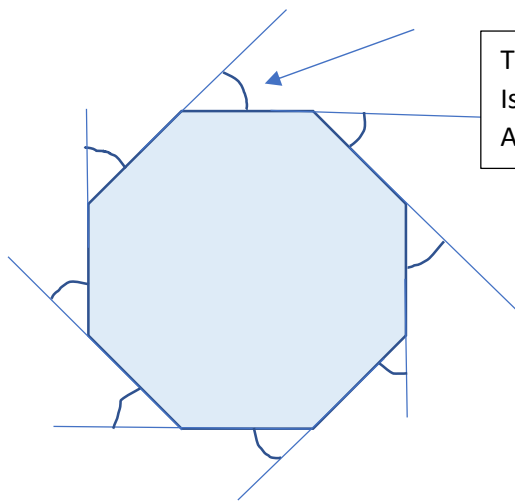


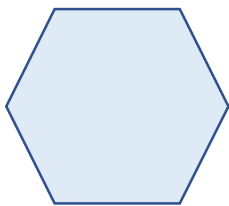
# Angles in a regular polygon



The total of the **Exterior** angles of a polygon is always 360. If the polygon is **regular** then All the angles are identical so...

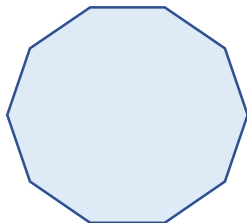
Ext. Angles	Sides
360	8
45	1

An **exterior** angle and an **interior** angle always add up to 180 so...  
The interior angle of a regular 8-sided polygon is  $180 - 45 = 135$

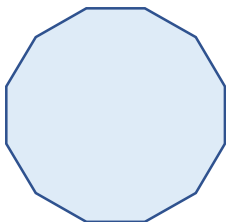


Hexagon:  
An **exterior** angle = \_\_\_\_  
An **interior** angle = \_\_\_\_

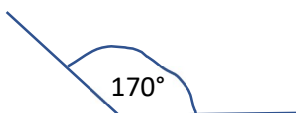
Ext. Angles	Sides
360	6
	1



Regular 10-sided polygon:  
An **exterior** angle = \_\_\_\_  
An **interior** angle = \_\_\_\_



Regular 12-sided polygon:  
An **exterior** angle = \_\_\_\_  
An **interior** angle = \_\_\_\_



Mystery polygon:  
An **interior** angle =  $170^\circ$   
An **exterior** angle = \_\_\_\_  
Number of sides =