

# Maths Workout - Geometry & Measures

Topic 9 - Angles in a Polygon				
Target 1	Target 2	Target 3		
<i>Calculate the exterior and interior angles of a regular polygon</i>	<i>Calculate the sum of the interior angles of a polygon</i>	<i>Calculate angles in diagrams involving regular polygons</i>		
1. Understand how external angles are drawn on an irregular polygon	1. Understand that the external and internal angles add up to $180^\circ$	1. Calculate internal and external angles in a regular polygon		
2. Know how to sum the external angles of a polygon, considering only a single external angle at each vertex	2. Complete the table of regular polygons, external and internal angles	2. Calculate angles in diagrams involving regular polygons		
3. Understand that the sum of the external angles of a pentagon is $360^\circ$	3. Demo: the angles of a triangle add up to $180^\circ$	3. Calculate angles in diagrams involving regular polygons		
4. Understand that the sum of the external angles of a polygon is $360^\circ$	4. Demonstration: the angles of a quadrilateral add up to $360^\circ$	4. Calculate angles in diagrams involving regular polygons		
5. Calculate the external angle of a regular polygon	5. Observe the pattern in splitting polygons into triangles	5. Calculate angles in diagrams involving regular polygons		
6. Complete a table of external angles and polygons	6. Calculate the total internal angles by splitting a polygon into triangles			
	7. Answer mixed questions on Targets 3 and 4			