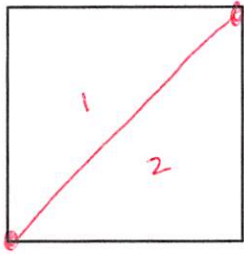


# Angles in Polygons

- Name each regular polygon
- Find each exterior angle
- Draw triangles from vertices

Find the interior angles of each regular polygon. Round your answer to the nearest tenth.

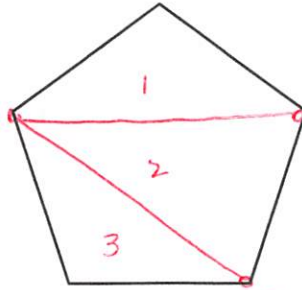
1) **Quadrilateral**



Sum of the interior angles =  $2(180) = \underline{360^\circ}$

Each interior angle =  $\underline{90^\circ}$

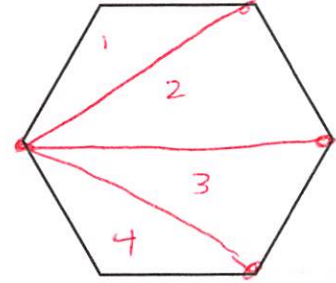
2) **Pentagon**



Sum of the interior angles =  $3(180) = \underline{540^\circ}$

Each interior angle =  $\underline{108^\circ}$

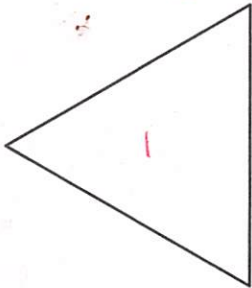
3) **Hexagon**



Sum of the interior angles =  $4(180) = \underline{720^\circ}$

Each interior angle =  $\underline{120^\circ}$

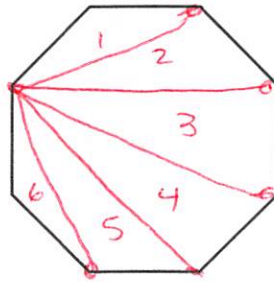
4) **Triangle**



Sum of the interior angles =  $1(180) = \underline{180^\circ}$

Each interior angle =  $\underline{60^\circ}$

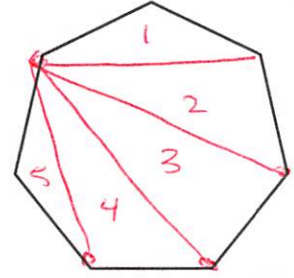
5) **Octagon**



Sum of the interior angles =  $6(180) = \underline{1080^\circ}$

Each interior angle =  $\underline{135^\circ}$

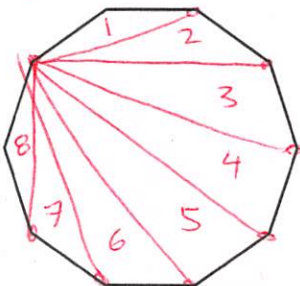
6) **Heptagon**



Sum of the interior angles =  $5(180) = \underline{900^\circ}$

Each interior angle =  $\underline{128.6^\circ}$

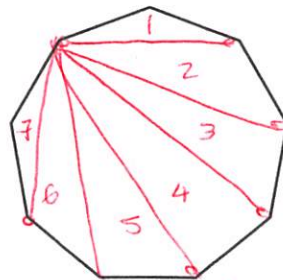
7) **Decagon**



Sum of the interior angles =  $8(180) = \underline{1440^\circ}$

each interior =  $\underline{144^\circ}$

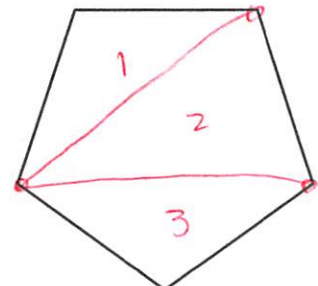
8) **Nonagon**



Sum of the interior angles =  $7(180) = \underline{1260^\circ}$

each interior =  $\underline{140^\circ}$

9) **Pentagon**



Sum of the interior angles =  $3(180) = \underline{540^\circ}$

each interior =  $\underline{120^\circ}$