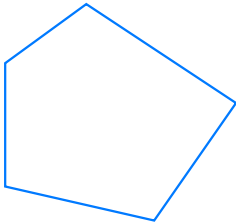
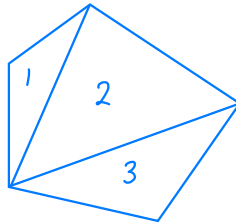


Interior Angles of a Polygon (A)

Sum of the interior angles of a polygon = $(n-2) \times 180$



5 sides



3 triangles

$$\begin{aligned}\text{Total angles} &= 3 \times 180 \\ &= 540^\circ\end{aligned}$$

A regular polygon has 8 sides. Find the size of each interior angle.

$$\begin{aligned}(8-2) \times 180 &= 6 \times 180 \\ &= 1080 \\ 1080 \div 8 &= 135^\circ\end{aligned}$$

A regular polygon has 10 sides. Find the size of each interior angle.

$$\begin{aligned}(10-2) \times 180 &= 8 \times 180 \\ &= 1440 \\ 1440 \div 10 &= 144^\circ\end{aligned}$$