

Internal Angles

Draw **three different** triangles on a piece of paper, or use the shapes on the sheet provided.

Measure the angles inside each triangle (the internal angles) and find the totals for each triangle.

Record your answers on the table below.

What do you notice?

Do the same for **three different quadrilaterals, pentagons and hexagons**.

Does it matter whether the shapes are regular?

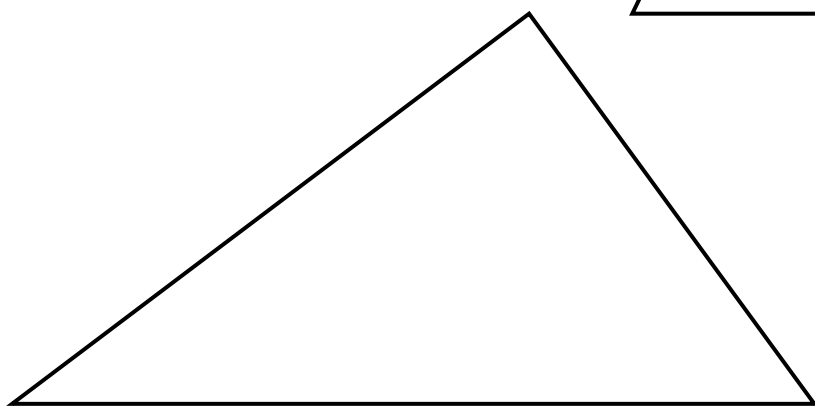
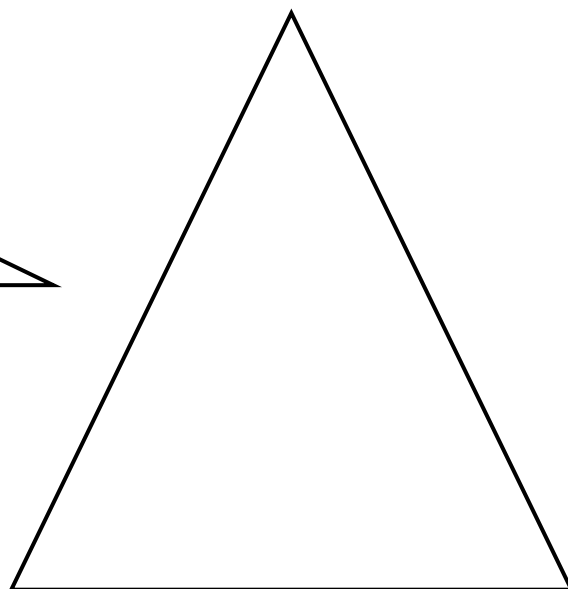
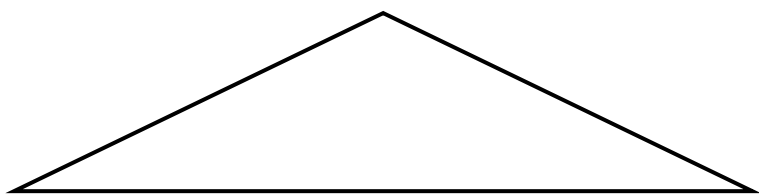
What patterns can you see?

	SUM OF THE ANGLES			Angles in the shape always equal.
Shape	Shape 1	Shape 2	Shape 3	
Triangles				
Quadrilaterals				
Pentagons				
Hexagons				

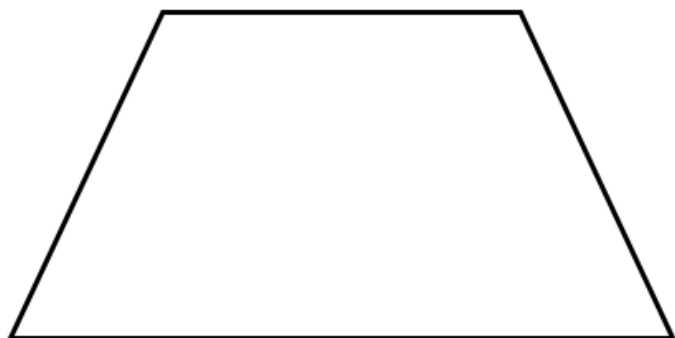
Predict what the angle sum for a heptagon and octagon would be.

Shape	Reasoning	Angles equal.
Heptagon		
Octagon		

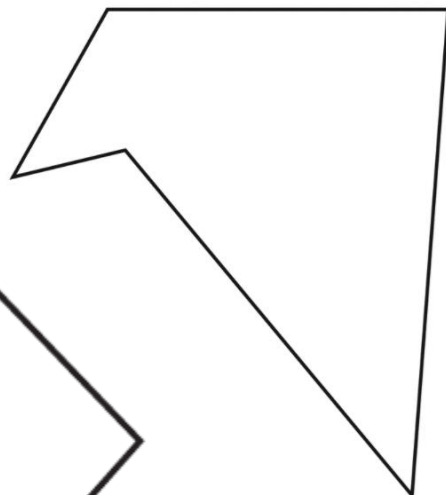
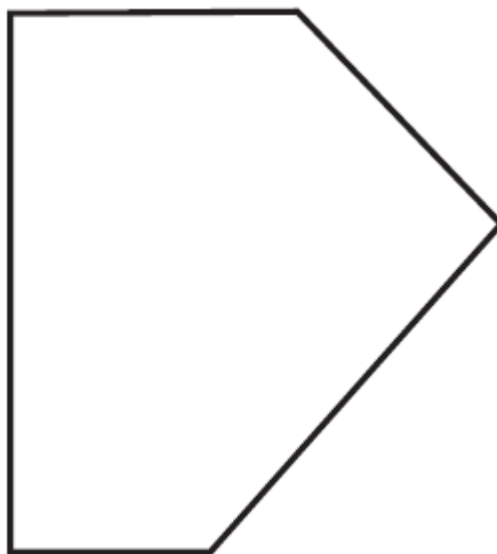
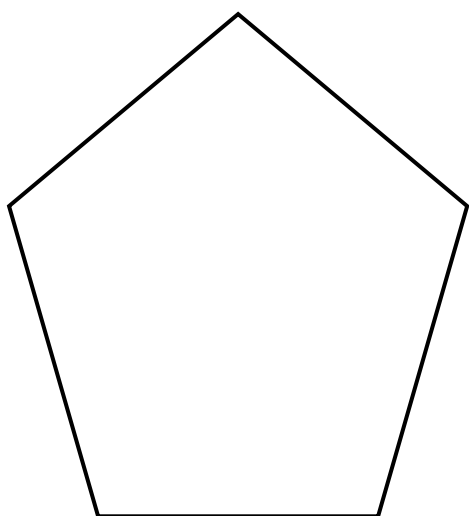
Triangles



Quadrilaterals



Pentagons



Hexagons

