

Name.....



List the names of the following polygons:

- a) 3 sides: _____
- b) 4 sides: _____
- c) 5 sides: _____
- d) 6 sides: _____
- e) 8 sides: _____

Calculate the sum of the interior angles of:

- a) a pentagon: _____
- b) a hexagon: _____
- c) an octagon: _____

Polygons

A regular polygon has each **interior angle equal to $(5x - 10)^\circ$** .

- a) Write an equation to represent the total sum of interior angles.
- b) Solve to find the value of **x**.
- c) How many sides does the polygon have?

Design a **logo or badge** using **2 or more regular polygons** that fit together without gaps.

Rules:

- a) You must use polygons with ***different numbers of sides***
- b) Explain your design using angles and symmetry
- c) Justify why the shapes fit or don't fit

