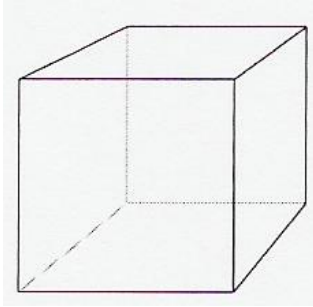
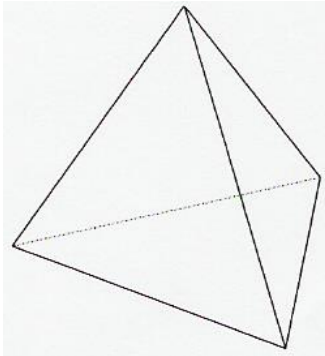


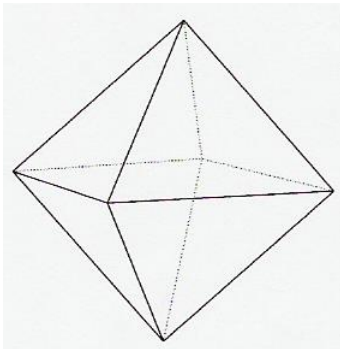
3-D Shapes



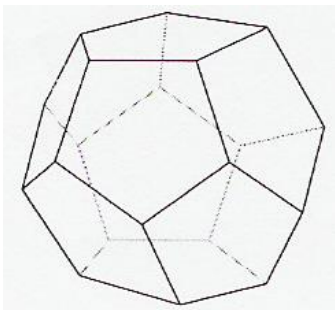
CUBE



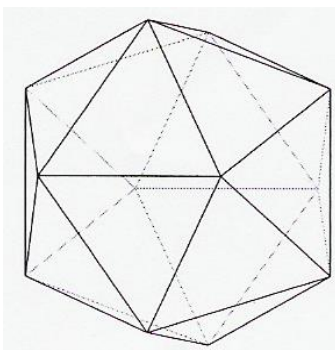
TETRAHEDRON



OCTAHEDRON



DODECAHEDRON



_____ ?

Investigating 3-D Shapes

Any solid shape where all the faces are flat is called a **POLYHEDRON**.

Complete the table below for as many polyhedrons as you know. Use your sheet on identifying 3-D shapes to help you.

Polyhedron	Number of Faces (F)	Number of Vertices (V)	Number of Edges (E)

Can you spot a relationship between the numbers for each shape?

Try to find a formula that connects the number of faces, vertices and edges.

Extension: Use your formula to work out how many faces a shape with 12 vertices and 30 edges would have. Can you name the polyhedron?