

WILF : to record findings accurately
to recognise patterns and to use
reasoning to predict answers.

Polyhedra : 3d Shape

Name:

Date:

Use the interactive program to investigate the following 3d shapes. Complete the table below and try to answer the questions.

Shape	faces	Vertices	Edges
Cube			
Cuboid			
Triangular Prism			
Hexagonal Prism			
Square Based Pyramid			
Tetrahedron			
Octahedron			
Dodecahedron			
Icosahedron			

Can you see a pattern in your results?

Can you explain how to find the number of edges on a shape if you know the number of faces and vertices?

If a shape has 32 faces and 30 vertices – predict how many edges it will have .

Using your data can you predict the number of edges a rhombicosidodecahedron has, if you know that it has 62 faces and 60 vertices?

