

What do you notice about the number of faces and vertices on a pyramid? What do you notice about the number of edges on the base and the number of faces? What do you notice about the number of edges on the base and the number of vertices?

What can you say about the number of edges on the base and the number of edges altogether?

## 4502-01 Visualise 3-D objects and make nets of common solids Answers Free resources from Mathsblog in association with www.mathsgogogo.co.uk © Mathsgogogo

2. A cuboid has six faces, twelve edges and eight vertices.

3.				
Name	Edges on base	Faces	Edges	Vertices
Tetrahedron	3	4	6	4
Square based pyramid	4	5	8	5
Pentagonal based pyramid	5	6	10	6
Hexagonal based pyramid	6	7	12	7
Octagonal based pyramid	8	9	16	9

On a pyramid the number of faces and vertices are the same.

On a pyramid the number of faces is one more than the number of edges on the base.

On a pyramid the number of vertices is one more than the number of edges on the base.

On a pyramid the number of edges altogether is twice the number of edges on the base.