Polyhedrons

- A polyhedron is a solid with flat faces
- (from Greek poly- meaning "many" and -edron meaning "face").
- So, to be a polyhedron there should be **no curved surfaces**.



That's Interesting

• Counting Faces, Vertices and Edges

If you count the number of faces (the flat surfaces), vertices (corner points), and edges of a polyhedron, you can discover an interesting thing:

The number of faces *plus* the number of vertices *minus* the number of edges equals 2

This can be written neatly as a little equation:

F+V - E=2

Examples of the above equations



This cube has:

- 6 Faces
- 8 Vertices (corner points)
- 12 Edges

F + V - E = 6 + 8 - 12 = 2

Example 2



This prism has:

- 5 Faces
- 6 Vertices (corner points)
- 9 Edges

F + V - E = 5 + 6 - 9 = 2