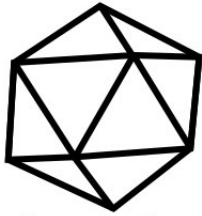
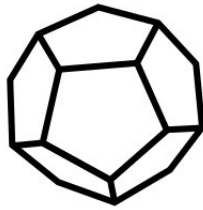


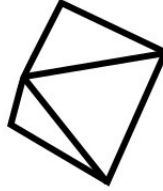
**$F + V = E + 2$**   
**The Platonic Solids**



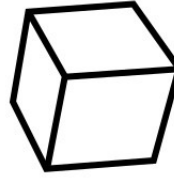
**Icosahedron**  
 20 Faces  
 12 Vertices  
 30 Edges



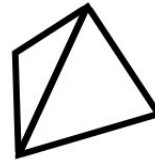
**Dodecahedron**  
 12 Faces  
 20 Vertices  
 30 Edges



**Octahedron**  
 8 Faces  
 6 Vertices  
 12 Edges



**Cube**  
 6 Faces  
 8 Vertices  
 12 Edges

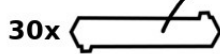


**Tetrahedron**  
 4 Faces  
 4 Vertices  
 6 Edges

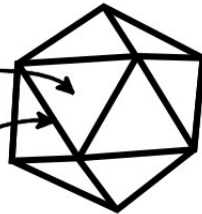
**Face model**



**Edge model**

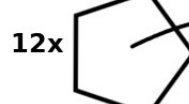


Edge length approx 53mm  
 {3, 5} Five triangle faces  
 or five 60° edges  
 at each vertex



**Icosahedron**  
 20 Faces  
 12 Vertices  
 30 Edges

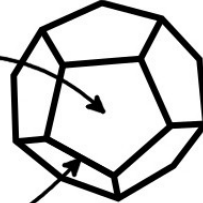
**Face model**



**Edge model**



Edge length approx 36mm  
 {5, 3} Three pentagon faces  
 or three 108° edges  
 at each vertex



**Dodecahedron**  
 12 Faces  
 20 Vertices  
 30 Edges

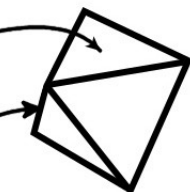
**Face model**



**Edge model**

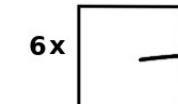


Edge length approx 71mm  
 {3, 4} Four triangle faces  
 or four 60° edges  
 at each vertex

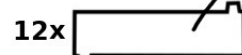


**Octahedron**  
 8 Faces  
 6 Vertices  
 12 Edges

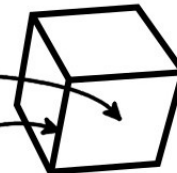
**Face model**



**Edge model**



Edge length approx 58mm  
 {4, 3} Three square faces  
 or three 90° edges  
 at each vertex

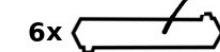


**Cube**  
 6 Faces  
 8 Vertices  
 12 Edges

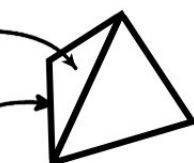
**Face model**



**Edge model**



Edge length approx 82mm  
 {3, 3} Three triangle faces  
 or three 60° edges  
 at each vertex



**Tetrahedron**  
 4 Faces  
 4 Vertices  
 6 Edges