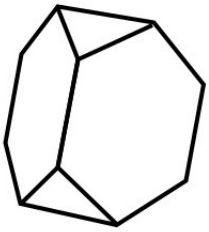
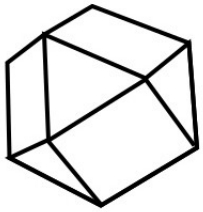
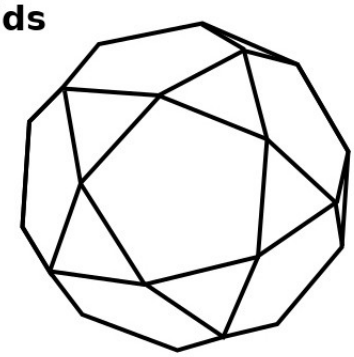
# F + V = E + 2
## Archimedean Solids



**Truncated Tetrahedron**
**8 Faces (4△ 4⬡ )**
**12 Vertices**
**18 Edges**



**Cubeoctahedron**
**14 Faces (8△ 6□ )**
**12 Vertices**
**24 Edges**



**Icosidodecahedron**
**32 Faces (20△ 12⬠ )**
**30 Vertices**
**60 Edges**

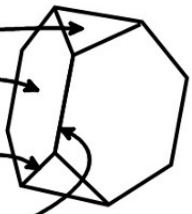
**Face model**

**4x** **4x**

**Edge model**

**12x** a

**6x** b

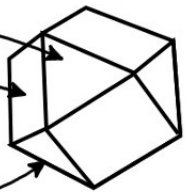


**Edge length 50mm**
**2 hexagons, 1 triangle**
**or 2 edge a, 1 edge b**
**at each vertex**

**Truncated**
**Tetrahedron**
**8 Faces (4△ 4⬡ )**
**12 Vertices**
**18 Edges**

**Face model**

**8x** **6x**



**Edge model**

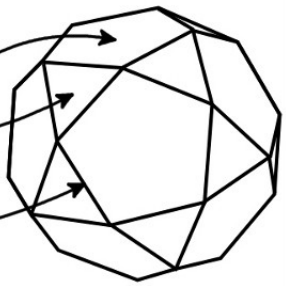
**24x**

**Edge length 50mm**
**2 triangles, 2 squares**
**or 4 edges at each**
**vertex**

**Cubeoctahedron**
**14 Faces (8△ 6□ )**
**12 Vertices**
**24 Edges**

**Face model**

**20x** **12x**



**Edge model**

**60x**

**Edge length 50mm**
**2 triangles, 2 pentagons**
**or 4 edges at each**
**vertex**

**Icosidodecahedron**
**32 Faces (20△ 12⬠ )**
**30 Vertices**
**60 Edges**