


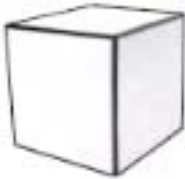



COUNTDOWN Challenge

Platonic Solids: Part 1

A Platonic solid is a regular polyhedron having surfaces or faces in the shape of a regular triangle, square or pentagon. All of the faces, edges, and vertices (corners) are identical.

| <u>Name</u> | <u>Solid</u> | <u># of Faces</u> | <u># of Edges</u> | <u># of Vertices</u> | Prove Euler's Formula <u>F+V=E+2</u> |
|----------------------|---|-------------------|-------------------|----------------------|--|
| Tetrahedron |  | _____ | _____ | _____ | _____ |
| Octahedron |  | _____ | _____ | _____ | _____ |
| Icosahedron |  | _____ | _____ | _____ | _____ |
| Cube (Hexahedron) |  | _____ | _____ | _____ | _____ |
| Dodecahedron |  | _____ | _____ | _____ | _____ |

On the next page, create a net for each of the Platonic solids.