

## Solids by the Numbers

Fill in the blanks with the appropriate numbers. Consult your text if necessary.

1. The number of vertices of a cube is \_\_\_\_\_.
2. The number of lateral faces of a triangular prism is \_\_\_\_\_.
3. The sum of the faces and base of an octagonal pyramid is \_\_\_\_\_.
4. The total number of regular polyhedra (also called Platonic Solids) is \_\_\_\_\_.
5. In Euler's Formula  $V - E + F$  is equal to \_\_\_\_\_.
6. The number of bases in a pyramid is \_\_\_\_\_.
7. The number of faces of a cube is \_\_\_\_\_.
8. One less than the number of edges of a regular octahedron is \_\_\_\_\_. (A regular octahedron has 8 faces and 6 vertices.)
9. The number of faces of a regular tetrahedron is \_\_\_\_\_. (A regular tetrahedron has 6 edges and 4 vertices.)
10. The number of vertices of a regular icosahedron is \_\_\_\_\_. (A regular icosahedron has 20 faces and 30 edges.)
11. Half of the number of vertices of a regular dodecahedron is \_\_\_\_\_. (A dodecahedron has 12 faces and 30 edges.)
12. The total number of faces and bases of a pentagonal prism is \_\_\_\_\_.