|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | | |  |
|  |  | |  |
|  |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | ***Polygons and Polyhedra*** | | | | | |  | |  |  |  | |  | |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | ***Polygons*** | | |  |  | |  |  |  |  |  | |  |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | **Name** | **Alternate names** | **Sides** | **Internal Angles (Regular Polygons Only)** | | Henagon | Monogon | 1 |  | | Digon |  | 2 |  | | Triangle | Trigon | 3 | 60° / Total 180° | | Quadrilateral | Tetragon | 4 | 90° / Total 360° | | Pentagon |  | 5 | 108° | | Hexagon |  | 6 | 120° | | Heptagon | Septagon | 7 | 128.571° | | Octagon |  | 8 | 135° | | Enneagon | Nonagon | 9 | 140° | | Decagon |  | 10 | 144° | | Hendecagon | Undecagon | 11 | 147.273° | | Dodecagon |  | 12 | 150° | | Tridecagon | Triskaidecagon | 13 | 152.308° | | Tetradecagon | Tetrakaidecagon | 14 | 154.286° | | Pentadecagon | Quindecagon Pentakaidecagon | 15 | 156° | | Hexadecagon | Hexakaidecagon | 16 | 157.5° | | Heptadecagon | Heptakaidecagon | 17 | 158.824° | | Octadecagon | Octakaidecagon | 18 | 160° | | Enneadecagon | Enneakaidecagon Nonadecagon | 19 | 161.053° | | Icosagon |  | 20 | 162° | | Icosihenagon |  | 21 | 162.857° | | Triacontagon |  | 30 | 168° | | Tetracontagon |  | 40 | 171° | | Pentacontagon |  | 50 | 172.8° | | Hexacontagon |  | 60 | 174° | | Heptacontagon |  | 70 | 174.857° | | Octacontagon |  | 80 | 175.5° | | Enneacontagon |  | 90 | 176° | | Hectagon | Hectogon | 100 | 176.4° | | Chiliagon |  | 1,000 | 179.64° | | Myriagon |  | 10,000 | 179.964° | | Decemyriagon |  | 100,000 | 179.996° | | Hecatommyriagon | Hekatommyriagon Megagon | 1,000,000 | ~180° | | Googolgon |  | 10100 | ~180° | | n-gon |  | n | (n-2) x 180° / n | | | |  |  | | [back to top](http://www.purplehell.com/riddletools/polys.htm#top) | | |  |  | |  |  |  |  |  | |  |  |  |  |  | | ***Polyhedra*** | | |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | |  |  | | --- | --- | | **Name** | **Faces** | | Tetrahedron | 4 | | Pentahedron | 5 | | Hexahedron | 6 | | Heptahedron | 7 | | Octahedron | 8 | | Nonahedron | 9 | | Decahedron | 10 | | Undecahedron | 11 | | Dodecahedron | 12 | | Tetradecahedron | 14 | | Icosahedron | 20 | | Icositetrahedron | 24 | | Triacontahedron | 30 | | Icosidodecahedron | 32 | | Hexecontahedron | 60 | | Enneacontahedron | 90 | | | |  |  | | [back to top](http://www.purplehell.com/riddletools/polys.htm#top) | | |  |  | |  |
|  |  | |  |

|  |
| --- |
|  |