Hierarchy of Polyvertexia (Polyhedra)

"Polyhedra should be reidentified as polyvertexia." –Buckminster Fuller

"30 Verti"

6 Great Circles (Icosidodecahedron)

6 Decagons, 60 edges, 30 radii
12 pentagons, 20 triangles

See Lesson 1
http://www.rwgrayprojects.com/Marvin/Intro.html

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10 Great Circles (10 hexagons)

Forms a pentagram within each of the 12 pentagons of the 30 Verti

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Icosahedron – "12 Verti"

Dodecahedron – "20 Verti"

↕

Rhombic Triacontahedron

↕

5 Vector Equilibria (5 cuboctahedra)

See 5 VE in the 30 Verti in
http://www.rwgrayprojects.com/Marvin/Intro.html

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5 Octahedra – "6 Verti"

↕

5 Cubes 10 Tetrahedra – "4 Verti"

↕

5 Rhombic Dodecahedra

↕

5 Truncated Rhombic Dodecahedra

"60 Verti" Lesser Rhombicosidodecahedron

"120 Verti" Greater Rhombicosidodecahedron

Foundation for New Directions
93 Belmont Street, Cambridge, MA 02138
(617) 547-6621 fnd8@aol.com www.holisticliving.info

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