

CP Geometry: Platonic Solids / Surface Area Analysis

Name: _____

- Instructions:**
1. For each solid, begin by measuring the length of the edge to complete the first column of the chart ** centimeters please **
 2. Cut out each solid, folding on the solid and/or dotted lines and saving the flaps so the figure folds together well.
 3. Fold the figure together to form the solid. Either tape or glue it in place.
 4. Once each figure is complete, finish the remainder of the table (for height of face, think about using trig if necessary.)
 5. Attempt to complete the relationship between V, E, and F at the bottom of the page. You should get an equation.

Solid	Length of Edge	Height of Face	Area of Face	# Faces (F)	Surface Area of Figure	# Edges (E)	# Vertices (V)
Tetrahedron							
Cube							
Octahedron							
Dodecahedron		(apothem)					
Icosahedron							

*** Relationship between V, E, and F?? _____