

Activity Euler's Formula:

For each Platonic solid, count the number of vertices (V), faces (F), and edges (E). Record the data in a table like the one below.

Platonic solid	# of vertices (V)	# of faces (F)	# of edges (E)	
tetrahedron				
cube				
regular octahedron				
regular dodecahedron				

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For each Platonic solid, count the number of vertices (**V**), faces (**F**), and edges (**E**). Record the data in a table like the one below.

Platonic solid	# of vertices (V)	# of faces (F)	# of edges (E)	
regular tetrahedron	4	4	6	$4+4=6+2$
cube	8	6	12	$8+6=12+2$
regular octahedron	6	8	12	$6+8=12+2$