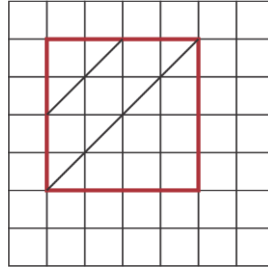
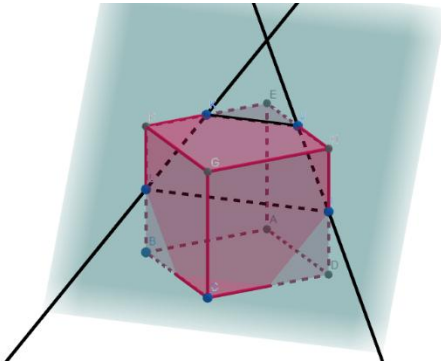


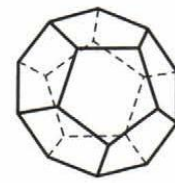
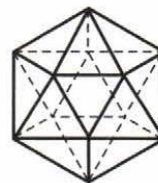
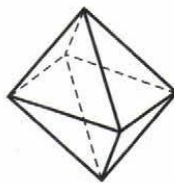
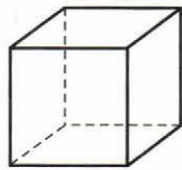
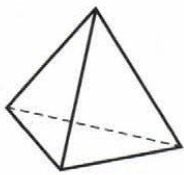
Classwork 23.



1. Fill the table:

Euler's formula for any convex polyhedra states that for any convex polyhedron, the number of vertices (V), edges (E), and faces (F) are related by the formula:

$$V - E + F = 2$$





Tetrahedron

Cube (hexahedron)

Octahedron

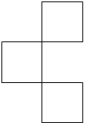
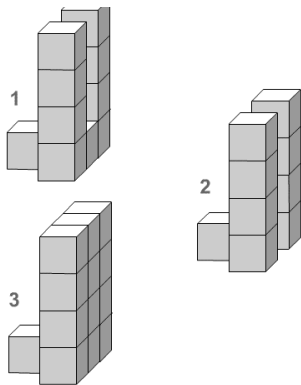
Icosahedron

Dodecahedron


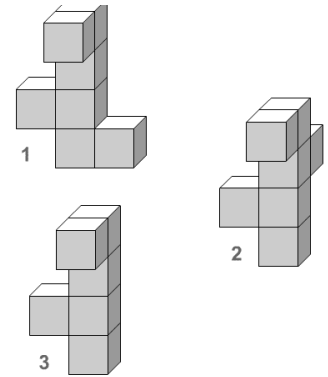
Name	Image	Vertices V	Edges E	Faces F	Euler characteristic: $V - E + F$
Tetrahedron		4	6	4	2
Hexahedron or cube		8	12	6	2

Octahedron		6	12	8	2
Dodecahedron		20	30	12	2
Icosahedron		12	30	20	2

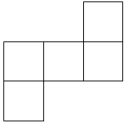
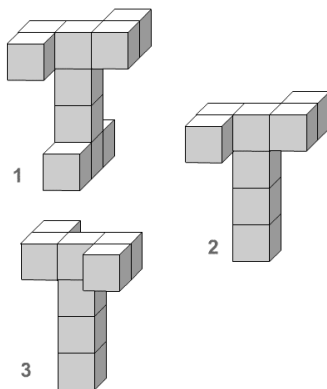
Find the shape which has this top view

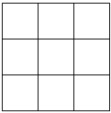
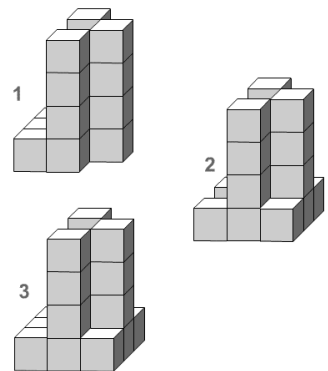
Find the shape which has this top view

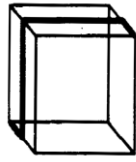
Find the shape which has this top view

Find the shape which has this top view

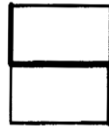
Thick wire placed on a glass cube.



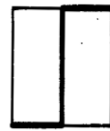
General



Front view

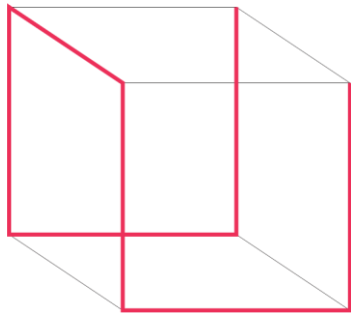


View from
above

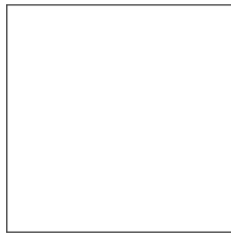


View
from left

Draw all three views for these cubes:



Front



Left



Up

