**Nalanda College – Colombo 10**
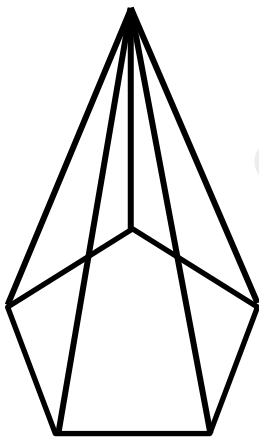**Mathematics – 2020 October**
**Grade - 8**

Time – 01 hours

## 6 - Solids

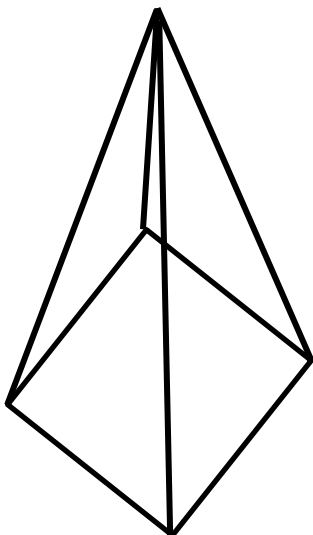(1)     Fill in the blanks.

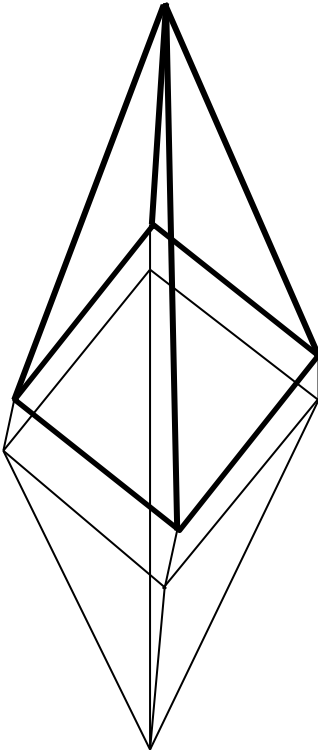| Solid | Number of faces | Number of vertices | Number of edges | Is Euler's relationship satisfied ? |
|---|---|---|---|---|
| (i) Cube | | | | |
| (ii) Tetrahedron | | | | |
| (iii) Octahedron | | | | |
| (iv) Dodecahedron | | | | |
| (v) Icosahedron | | | | |

(2)



(i)     Write the number of edges.

(ii)    Write the number of faces.

(iii)   Write the number of vertices.

(iv)    Is this satisfy the Euler's relationship
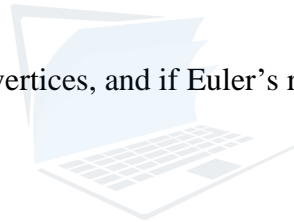
(3)



(i)     Write the number of edges.

(ii)    Write the relationship between number of edges of bass and total number of edges.

(4)



(i) Write the number of edges.

(ii) Write the number of faces.

(iii) Write the number of vertices.

(5) If a certain solid has 9 edges and 6 vertices, and if Euler's relationship is satisfied , find the number of faces it has.