RS Aggarwal Solutions for Class 7 Maths chapter 19
Three- Dimensional Shapes

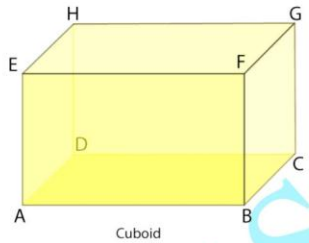
EXERCISE 19 PAGE: 224

1. Fill in the blanks:

(i) A cuboid has …… rectangular faces, ……edges and ……vertices.

Solution:-

A cuboid has 6 rectangular faces, 12 edges and 8 vertices.



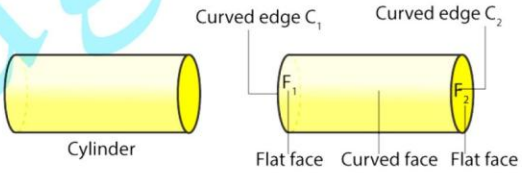
Cuboid

The 6 faces of the cuboid are,
ABCD, EFGH, ADHE, BCGF, ABFE, DCGH.
Out of these, four faces, namely, ABFE, DCGH, BCGF and ADHE are called Lateral faces of the cuboid.
The 12 edges of the cuboid are,
AB, BC, CD, DA, EF, GH, FG, EH, CG, BF, AE, DH.
The 8 vertices of the cuboid are
A, B, C, D, E, F, G, H.

(ii) A cylinder has ……curved face and ……flat faces.

Solution:-

A cylinder has one curved face and two flat faces.



A cylinder has no vertex.

(iii) A cone has one ……face and one ……face.

Solution:-

A cone has one curved face and one flat face.

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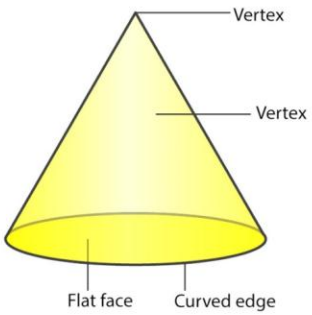
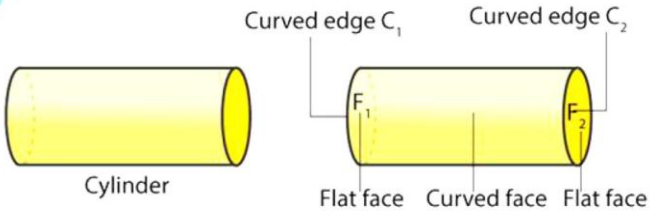


(iv) A sphere has a .....Surface.
Solution:-
A sphere has a curved surface.

2. Write (T) for true and (F) for false:
(i) A cylinder has no vertex.
Solution:-
True.
Three edges meet at a point is called vertex.
From the fig, we came to conclude that the cylinder has no vertex.



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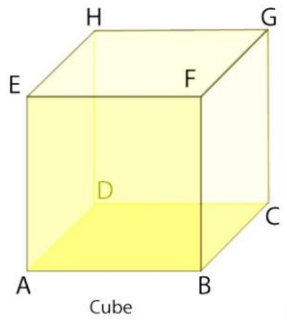
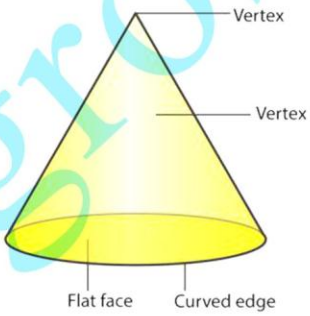
(ii) A cube has 6 faces, 12 edges and 8 vertices.
Solution:-
True.
From the fig, we came to conclude that the cube has 6 faces, 12 edges and 8 vertices.



Cube

(iii) A cone has one vertex.
Solution:-
True.
From the fig, we came to conclude that the cone has one vertex.



(iv) A sphere has one edge.
Solution:-
False.
From the fig, we came to conclude that the sphere has no edge.

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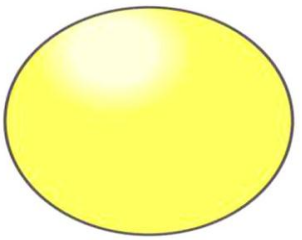

(v) A sphere has a cured surface.
Solution:-
True.
From the fig, we came to conclude that the sphere has curved surface.