

Question Bank

Subject : Mathematics

Class : X

Chapter : Volumes

MULTIPLE CHOICE QUESTIONS

- Three identical cubes of side 7 cm are joined end to end .the volume of cuboid
(a) **1029 cm³** (b) 343 cm³ (c) 49 cm³ (d) 294 cm³
- The volume of largest right circular cone that can be cut out from a cube of edge 4.2cm is
(a) 9.7 cm³ (b) 77.6 cm³ (c) 58.2 cm³ (d) **19.4 cm³**
- The shape of the glass is usually in the form of
(a) a cone (b) **a frustum of a cone** (c) a cylinder (d) a sphere
- A cuboid of dimensions 49cmx33cmx24cm is moulded to form a sphere, the radius of the sphere is
(a) **21cm** (b) 23cm (c) 25cm (d) 19cm
- Volumes of the spheres are in the ratio 64:27.The ratio of the surface areas is
(a)3:4 (b) 4:3 (c) 9:16 (d) **16:9**
- How many bags of grain can be stored in the cuboid granary 12mx6mx5m if each cube occupies a space of 0.48m³
(a) **750** (b) 75 (c) 1500 (d) 375
- A frustum of a right circle cone is of height 16cm with radii of its ends as 8cm and 20cm,then volume of the frustum is
(a) **3328π cm³** (b) 3238π cm³ (c) 3240π cm³ (d) 3340π cm³
- A cube of 6cm is cut into number of cubes each of side 2cm.The number of cubes will be
(a) 9 (b) 18 (c) **27** (d) 36
- A cylindrical vessel 60cm in diameter is partially filled with water .A sphere 30cm in diameter is dropped into it the increase in the water level is :

(a) 2cm (b) 4cm (c) 5cm (d) 6cm

10. A shuttle cock used for playing badminton has the shape of combination of

- (a) a cylinder and a sphere (b) a cylinder and a hemi sphere
(c) a cone and a sphere (d) a frustum of a cone and a hemi sphere