CBSE MCQ's Mathematics Sample Papers - Class 10

Ch. Surface Area and Volume

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1. Total surface area of a cube is 600 cm^2. Its volume is

   (A) 100cm^2 (B) 1000cm^2 (C) 400cm^2 (D) 2000cm^2

2. The cubes of side 3 cm which can be cut from a cube of side 6 cm is

   (A) 2 (B) 4 (C) 8 (D) 3

3. Surface area of a sphere is 5544 cm^2. Its diameter is _____ cm

   (A) 42 (B) 63 (C) 126 (D) 21

4. The radii of two cylinders are in ratio 2:3 and their are in ratio 3:2. Ratio of their volumes is

   (A) 4:9 (B) 9:4 (C) 3:2 (D) 2:3

5. A cone, cylinder and hemisphere stand on same base and have equal heights. The ratio of their volumes is

   (A) 1:2:3 (B) 1:3:2 (C) 2:1:3 (D) 2:3:1

6. The ratio of volumes of two spheres is 8:27, the ratio of their surface areas is

   (A) 4:9 (B) 9:4 (C) 2:3 (D) 3:2

7. A right triangle with sides 3 cm, 4 cm and 5 cm is revolved along 3 cm side. The volume of solid generated is

   (A) 12л cm^2 (B) 8л cm^2 (C) 4л cm^2 (D) 16л cm^2

8. A solid is converted from one shape to another. The volume will _____

   (A) increase (B) remain same (C) decrease (D) none of these

9. A right circular cone is cut through a plane parallel parallel to its base and the upper part is removed. The left over part is called _____

   (A) cone (B) cylinder

   (C) frustum of cone (D) hemi sphere

10. Two cubes of volume 125 cm^3 each is joined end to end. The surface are of resultant solid is _____ cm^2

    (A) 125 (B) 450 (C) 250 (D) 62.5

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