

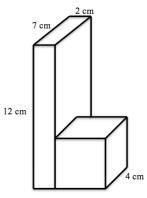
ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Arithmetic Class: 7 Date: 12.06.20 Duration: 40 min Worksheet Solutions 30 Full Marks: 15 CUBES AND CUBOIDS

Choose the Correct options:

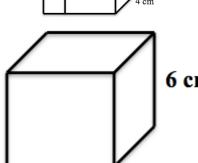
- 1. Total area of exhibition hall is 360m^2 . The measurement of each exhibition space is 5m width and 6m length. Calculate the maximum number of exhibition space that be provided in the hall?
 - (a) 12
 - (b) 24
 - (c) 48
 - (d) 96
- 2. A cube has a volume 64cm3. What is the area, in cm², of one surface of the cube?
 - (a) 4
 - (b) 8
 - (c) 16
 - (d) 32
- 3. Find the volume, in cm³, of the composite shape.
 - (a) 232
 - (b) 253
 - (c) 332
 - (d) 352

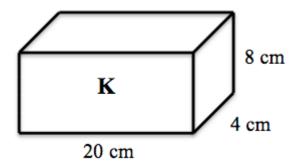


- 4. The cube shown is divided into two cuboids of equal size. Calculate the volume, in cm³, of a cuboid.
 - (a) 54
 - (b) 72
 - (c) 108
 - (d) 144
- 5. How many cubes with edges of 4 cm are needed to form cuboid K?

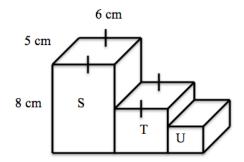


- (b) 36
- (c) 40
- (d) 80

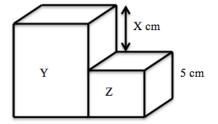




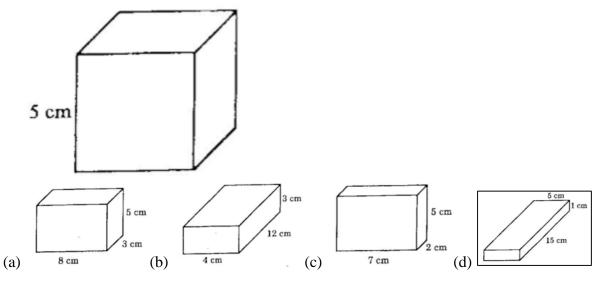
6. Diagram shows a composite 3D shape, cuboid S,T and U. The total volume of the whole solid is 400 cm^3 . The height of S is twice the height of T. What is the volume of U?



- (a) 40 cm^3
- (b) 80 cm^3
- (c) 120 cm^3
- (d) 240 cm^3
- 7. Diagram consists of a cuboid Y and a cube Z with same size of bases. The volume of the whole diagram is 325 cm³, what is the value of X in cm?



- (a) 3
- (b) 8
- (c) 10
- (d) 13
- 8. Diagram shows a cubes. Which of the following cuboid has the 60% of the volume of the cube?

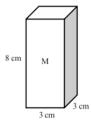


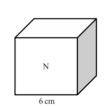
9. What is the difference in volume, in cm³, between M and N?



(c) 144

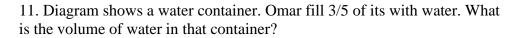
(d) 197





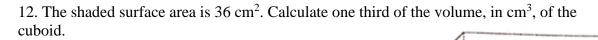
10. Chong filled 40% of the container with water. Calculate the volume, in cm³, of the empty space left in the container.

- (a) 125
- (b) 75
- (c) 50
- (d) 20



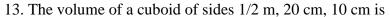


- (b) 1 200 cm³
- (c) 1800 cm³
- (d) $3\,000\,\mathrm{cm}^3$





- (b) 90
- (c) 120
- (d) 180



- (a) 100 cm^3
- (b) 1000 cm³
- (c) 10 000 cm³
- (d) 100 000 cm³

14 A rectangular tank is 100 cm long, 30 cm wide and 12 cm deep.

The volume of liquid it will hold is

- (a) 3.6 litres
- (b) 36 litres
- (c) 360 litres
- (d) 3600 litres

15 The width of a block of wood with rectangular cross-section is x cm. Its height is 2/3 its width and its length is 4 times its height. What is its volume in cm³?

- (a) 8x/9
- (b) $16x^3/9$
- (c) $8x^3/3$
- (d) 17x/3

5 cm

25 cm

10 cm

5 cm

12 cm