



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic
Duration: 40 min

Class: 7
Worksheet 30
CUBES AND CUBOIDS

Date: 12.06.20
Full Marks: 15

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?

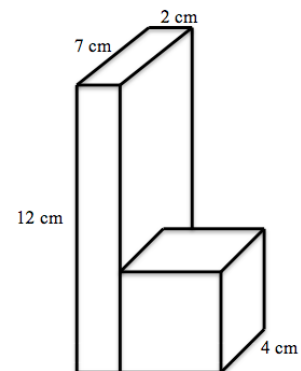
- (a) 12
- (b) 24
- (c) 48
- (d) 96

2. A cube has a volume 64cm^3 . What is the area, in cm^2 , of one surface of the cube?

- (a) 4
- (b) 8
- (c) 16
- (d) 32

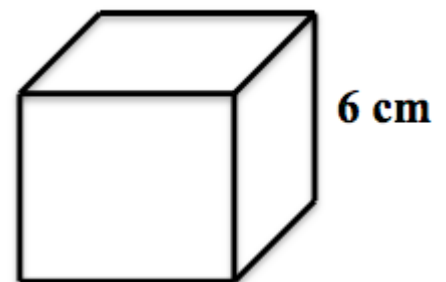
3. Find the volume, in cm^3 , of the composite shape.

- (a) 232
- (b) 253
- (c) 332
- (d) 352



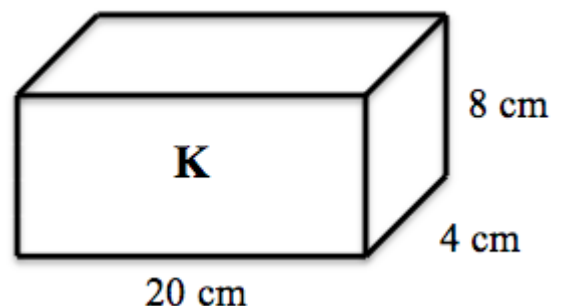
4. The cube shown is divided into two cuboids of equal size. Calculate the volume, in cm^3 , of a cuboid.

- (a) 54
- (b) 72
- (c) 108
- (d) 144



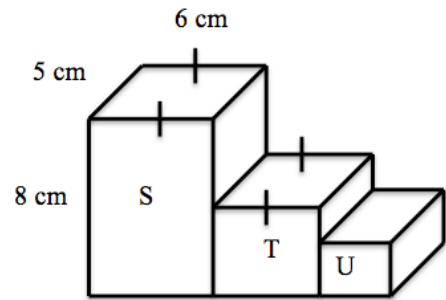
5. How many cubes with edges of 4 cm are needed to form cuboid K?

- (a) 10
- (b) 36
- (c) 40
- (d) 80



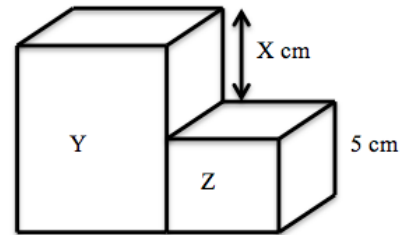
6. Diagram shows a composite 3D shape, cuboid S, T and U. The total volume of the whole solid is 400 cm^3 . The height of S is twice the height of T. What is the volume of U?

- (a) 40 cm^3
- (b) 80 cm^3
- (c) 120 cm^3
- (d) 240 cm^3

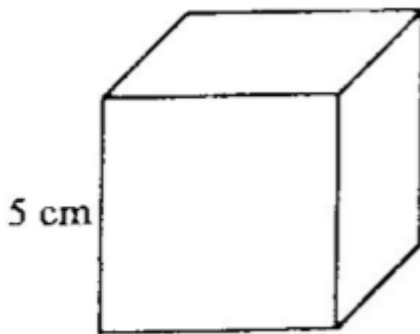


7. Diagram consists of a cuboid Y and a cube Z with same size of bases. The volume of the whole diagram is 325 cm^3 , what is the value of X in cm?

- (a) 3
- (b) 8
- (c) 10
- (d) 13



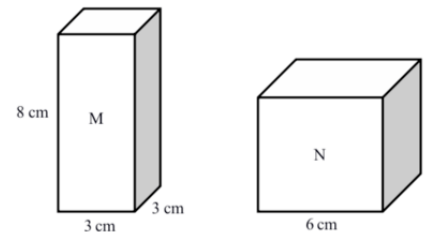
8. Diagram shows a cubes. Which of the following cuboid has the 60% of the volume of the cube?



- (a) 8 cm, 3 cm, 3 cm
- (b) 4 cm, 3 cm, 12 cm
- (c) 7 cm, 5 cm, 2 cm
- (d) 5 cm, 15 cm, 1 cm

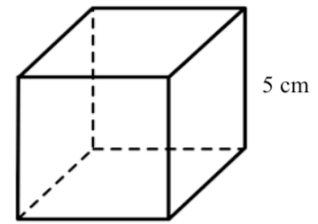
9. What is the difference in volume, in cm^3 , between M and N?

- (a) 47
- (b) 53
- (c) 144
- (d) 197



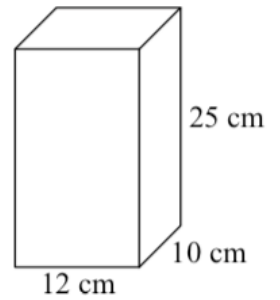
10. Chong filled 40% of the container with water. Calculate the volume, in cm^3 , of the empty space left in the container.

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



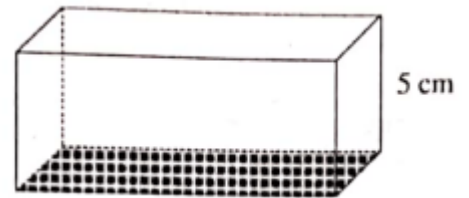
11. Diagram shows a water container. Omar fill $\frac{3}{5}$ of its with water. What is the volume of water in that container?

- (a) 900 cm^3
- (b) $1\,200 \text{ cm}^3$
- (c) $1\,800 \text{ cm}^3$
- (d) $3\,000 \text{ cm}^3$



12. The shaded surface area is 36 cm^2 . Calculate one third of the volume, in cm^3 , of the cuboid.

- (a) 60
- (b) 90
- (c) 120
- (d) 180



13. The volume of a cuboid of sides $\frac{1}{2} \text{ m}$, 20 cm , 10 cm is

- (a) 100 cm^3
- (b) 1000 cm^3
- (c) $10\,000 \text{ cm}^3$
- (d) $100\,000 \text{ cm}^3$

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 $x \text{ cm}$. Its height is $\frac{2}{3}$ its width and its length is 4 times its height. What is its volume in cm^3 ?

- (a) $\frac{8x}{9}$
- (b) $\frac{16x^3}{9}$
- (c) $\frac{8x^3}{3}$
- (d) $\frac{17x}{3}$