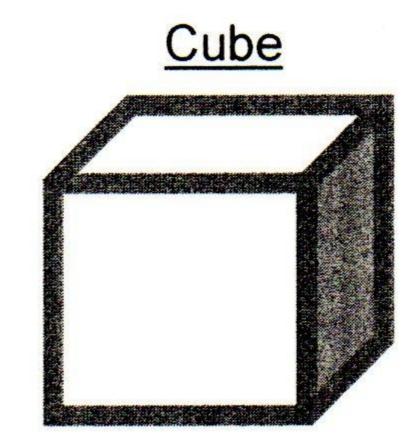
Volume and surface area

Volumes and Surface areas of Cuboid and Cube.

<u>Cuboid</u>

Volume (Capacity)- L x W x H
Surface Area- 2 x (LxH + LxW + HxW)
Total Edge Length- 4 x (L+ W +H)



Volume- L x L x L Surface Area- 6 x (LxL) Total Edge Length- 12 x L

Exercise: 11

Find the volume and surface area of the	followings.
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- 1) L=6m, W=4m, H=3m.
- a) Volume
- b) Surface Area

- 2) L=4.5m, W=1.2m, H=2m
- a) Volume
- b) Surface Area

- 3) L=30m, W=20m, H=5m.
- a) Volume

- b) Surface Area

- 4) L=8m, W=2m, H=50cm.
- a) Volume

b) Surface Area

5Find the total edge length of a cuboid which measures 7x5x3cm³.

Q6 Find the volume, surface area and edge length of a cube whose length is 4cm.

Q7 Find the volume, surface area and edge length of a cube whose length is 1.5m.

Q8 Find the volume, surface area and edge length of a cube whose length is 0.1m.

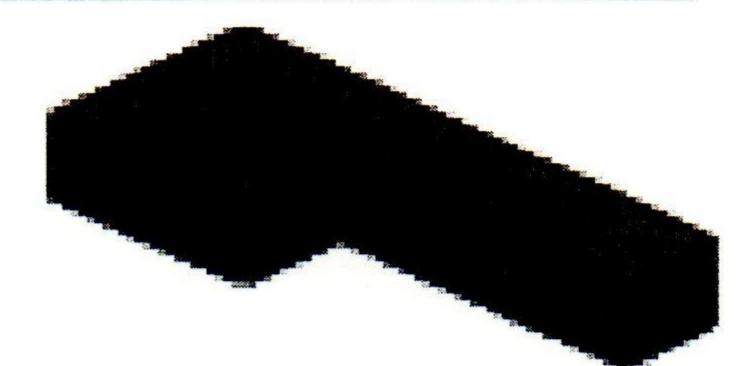
Q9 A box of cube shape is required for packaging. Its length is 8cm. Find the capacity of that box.

Q10 Find the capacity of a cuboidal tank which measures 3m in length, 1.5m in width and 2m height.

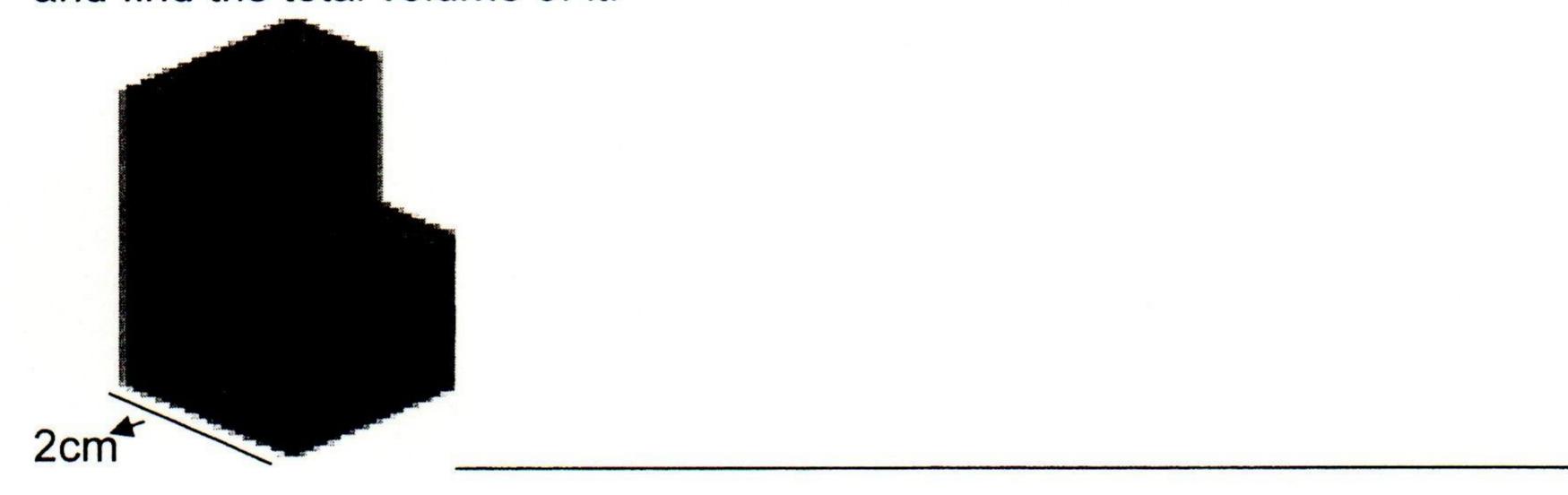
Q11 The dimension of a room is $10x8x2m^3$. Find the capacity of that room.

Q12 A cubical shape box whose length is 10cm has to be painted from outer side. The charge for paint is calculated using per cm². Find the total area that is chargeable.

Q13 The length of small cube is 1cm, find the total volume of this shape.



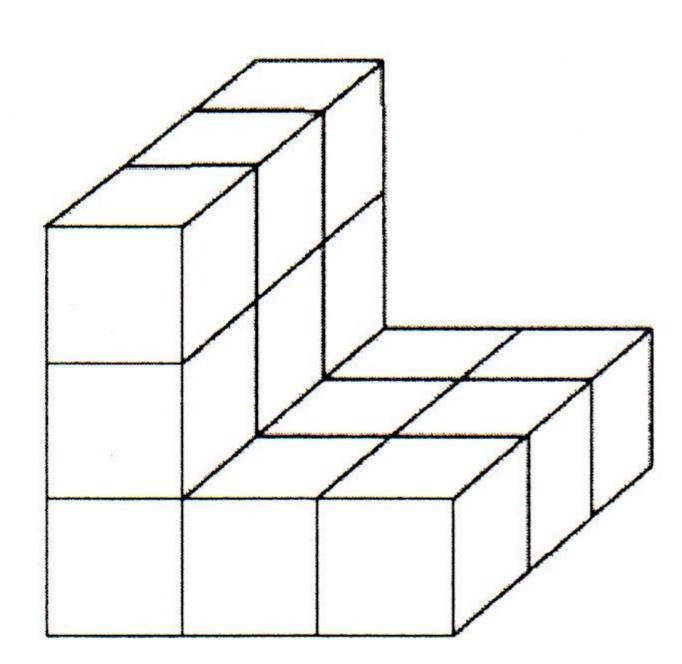
Q14 How many small cubes are there in this shape and find the total volume of it.

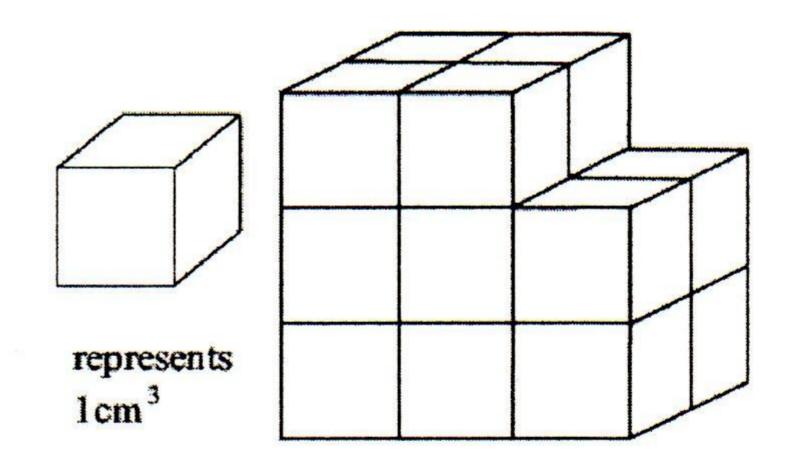


15. Here is a solid prism made of centimetre cubes. Find the volume of the solid prism.

a.







Volume=

Volume=