

A. Find the volume if each small cube measures 1 cu. cm.

1. The volume of the given cuboid = The total number of cubes in it

Volume of each small cube = 1 cu. cm

Number of cubes in 1 layer = $4 \times 3 = 12$

So the volume of the cuboid = 12 cu. cm

Ans. Required volume of the given cuboid is 12 cu. cm.

2. The volume of the given cuboid = The total number of cubes in it

Volume of each small cube = 1 cu. cm

Number of cubes in 1 layer = $4 \times 4 = 16$

Number of layers = 3

Number of cubes in 3 layers = $16 \times 3 = 48$

So the volume of the cuboid = 48 cu. cm

Ans. Required volume of the given cuboid is 48 cu. cm.

3. The volume of the given cuboid = The total number of cubes in it.

The volume of each small cube = 1 cu. cm

Number of cubes in 1 Layer = $4 \times 3 = 12$

Number of cubes in 2 Layers = $12 \times 2 = 24$

So the volume of the given cuboid = 24 cu. cm

Ans. The volume of the required cuboid is 24 cu. cm .

7. The volume of the given cuboid = The total number of cubes in it.

The volume of each small cube = 1 cu. cm .

Number of cubes in 1 Layer = $5 \times 1 = 5$

Number of cubes in 4 Layers = $5 \times 4 = 20$

Volume of the given cuboid = 20 cu. cm

Ans. The volume of the required cuboid is 20 cu. cm .

B. Count the number of cubes and find the volume in cu. cm .

1. The given figure contains cubes

Number of cm cubes in 1st layer = 4

Number of cm cubes in 2nd layer = 3

Number of cm cubes in 3rd layer = 2

Number of cm cubes in 4th layer = 1

Total number of cubes in the figure = $4 + 3 + 2 + 1 = 10$

Ans. The volume of the given figure is 10 cu. cm .

2. The figure contains cm cubes.

$$\text{Number of cm cubes in 1st Layer} = 4 \times 2 = 8$$

$$\text{Number of cm cubes in 2nd Layer} = 2 \times 2 = 4$$

$$\text{Number of cm cubes in 3rd Layer} = 2 \times 1 = 2$$

$$\text{Total number of cubes in the figure} = 8 + 4 + 2 = 14$$

Ans. Volume of the given figure is 14 cc.cm.

3. The figure contains cm cubes.

$$\text{Number of cm cubes in 1st Layer} = 5 \times 3 = 15$$

$$\text{Number of cm cubes in 2nd Layer} = 4 \times 3 = 12$$

$$\text{Number of cm cubes in 3rd Layer} = 3 \times 3 = 9$$

$$\begin{aligned} \text{Total number of cm cubes in the figure} &= 15 + 12 + 9 \\ &= 36 \end{aligned}$$

Ans. Required volume of the given figure is 36 cc.cm.

4. The figure contains cm cubes.

$$\text{Number of cm cubes in 1st Layer} = 5 \times 4 = 20$$

$$\text{Number of cm cubes in 2nd Layer} = 3 \times 2 = 6$$

$$\text{Number of cm cubes in 3rd Layer} = 2 \times 2 = 4$$

$$\text{Number of cm cubes in 4th Layer} = 2 \times 1 = 2$$

$$\begin{aligned} \text{Total number of cm cubes in the figure} &= 20 + 6 + 4 + 2 \\ &= 32 \end{aligned}$$

Ans. Required volume of the given figure is 32 cc.cm.