

NCERT Solutions for Class 10 Maths

Chapter 13 Surface Areas and Volumes

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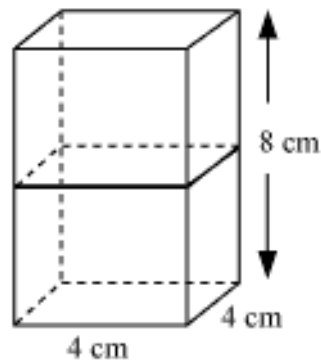
NCERT Solutions for Class 10 Maths Chapter 13 Surface Areas and Volumes Exercise 13.1

Question 1.

2 cubes each of volume 64 cm^3 are joined end to end. Find the surface area of the resulting cuboid.

Solution:

Given that
Volume of cubes = 64 cm^3
 $(\text{Edge})^3 = 64$
Edge = 4



If cubes are joined end to end, dimensions of resulting cuboid will be 4 cm, 4 cm, 8 cm.

$$\begin{aligned}\therefore \text{surface area and cuboids} &= 2(lb + bh + lh) \\ &= 2(4 \times 4 + 4 \times 8 + 4 \times 8) \\ &= 2(16 + 32 + 32) \\ &= 2(16 + 64) \\ &= 2 \times 80 = 160 \text{ cm}^2\end{aligned}$$