

CHAPTER 13

Visualising 3-D in 2-D

Example:

Identify the number of cubes in the adjacent figure:

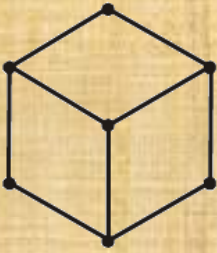
Sol.

There are three layers of cubes.

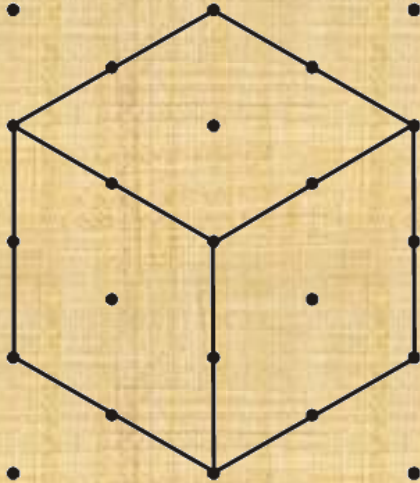
Layers of cubes	No. of cubes
Top layer	01
Second layer	03 (1 is hidden)
Lower layer	06 (3 is hidden)
Total	10

Example:

Look at the adjacent figure. Find the number of unit cubes in cube A, cube B, and find the ratio.



A



B

Sol.

There is only one unit cube in A, in figure B, by drawing parallel lines to all side, let us divide it into unit cubes and count. There are two layers and each layer has 4 unit cubes. So, number of unit cubes in B = 8.

Hence, ratio of unit cube in A and B = 1 : 8.

