



SpeedLabs

MATHS

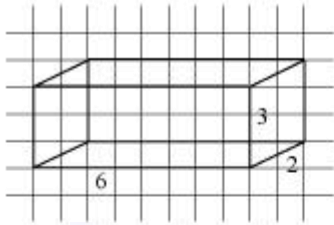
CBSE 7th

TEEVRA EDUTECH PVT. LTD.

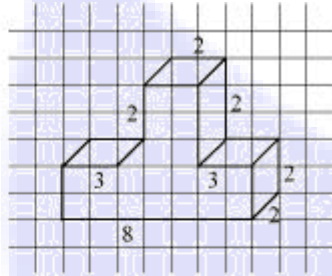
Visualising Solid Shapes

Exercise-15.2

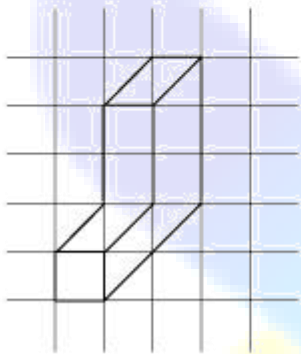
Q.1 Use isometric dot paper and make an isometric sketch for each one of the given shapes:



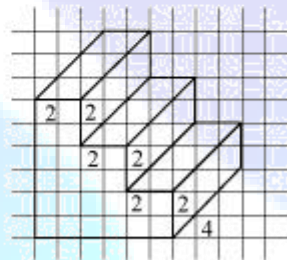
(i)



(ii)

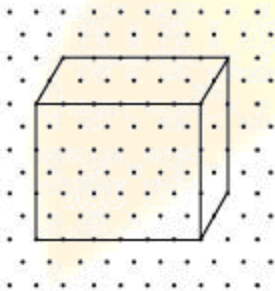


(iii)

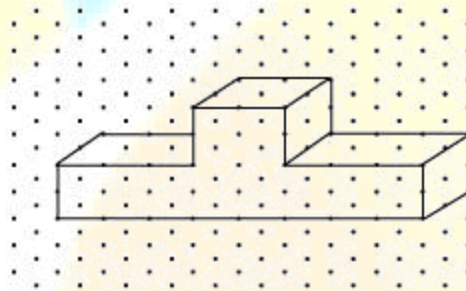


(iv)

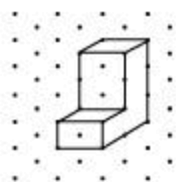
Sol: The isometric sketch of these figures can be drawn as follows.



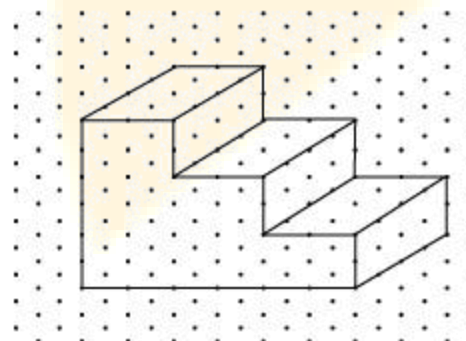
(i)



(ii)



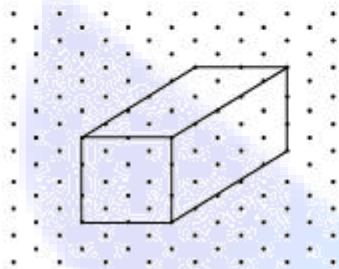
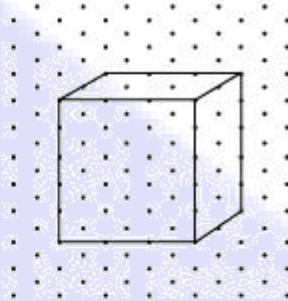
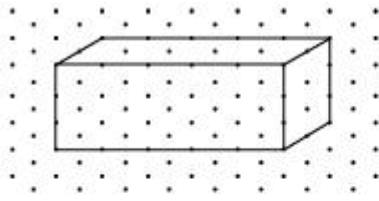
(iii)



(iv)

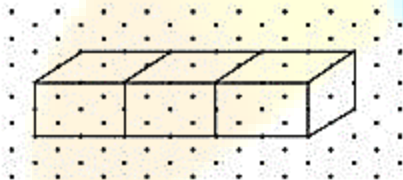
Q.2 The dimensions of a cuboid are 5 cm, 3 cm and 2 cm. Draw three different isometric sketches of this cuboid.

Sol: 3 isometric sketches of the given cuboid can be drawn as follows.

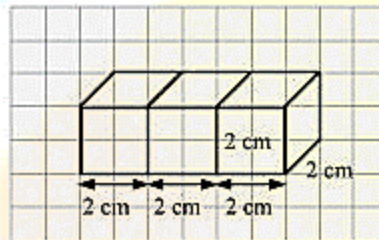


Q.3 Three cubes each with 2 cm edge are placed side by side to form a cuboid. Sketch an oblique or isometric sketch of this cuboid.

Sol: When three cubes, each of 2 cm edge, are placed side by side, a cuboid with dimensions as 6 cm, 2 cm, and 2 cm will be formed.

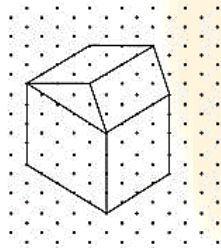
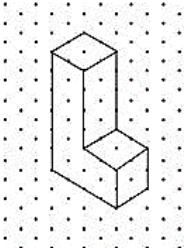


Isometric sketch

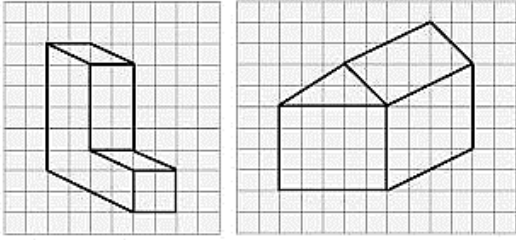


Oblique sketch

Q.4 Make an oblique sketch for each one of the given isometric shapes:



Sol: The oblique sketch of these figures will be as follows.

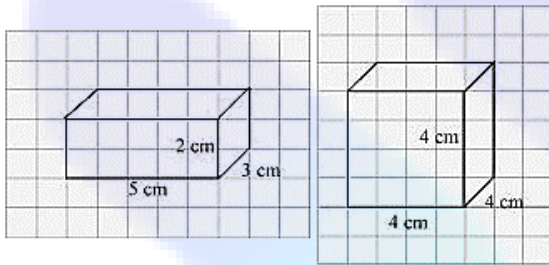


Q.5 Give (i) an oblique sketch and (ii) an isometric sketch for each of the following:

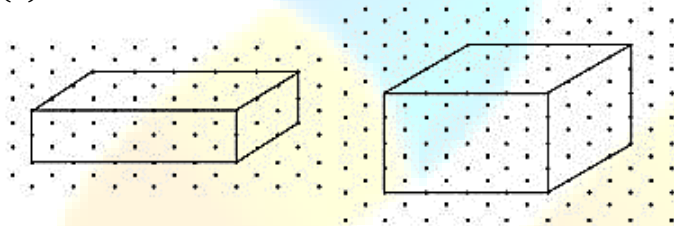
(a) A cuboid of dimensions 5 cm, 3 cm and 2 cm. (Is your sketch unique?)

(b) A cube with an edge 4 cm long.

Sol: (i) Oblique sketch



(ii) Isometric sketch



The sketch for the cuboid is not unique. The cuboid can also be drawn by taking the length as 3 cm or 2 cm. This will lead to a different view of the same cuboid.