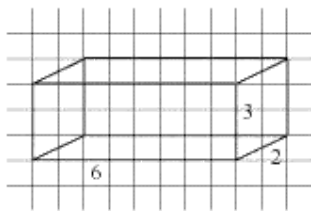


Board – CBSE

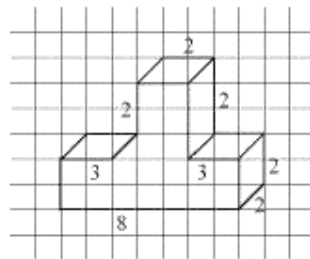
Class – 7th

Topic – Visualizing Solid Shapes 15.2

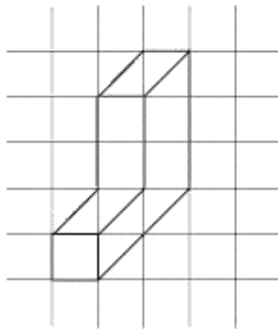
**Q.1** Use isometric dot paper and make an isometric sketch for each one of the given shapes:



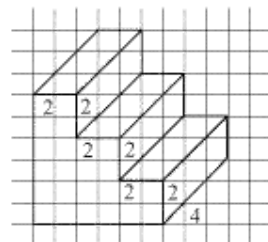
(i)



(ii)

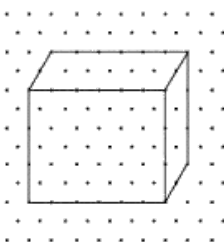


(iii)

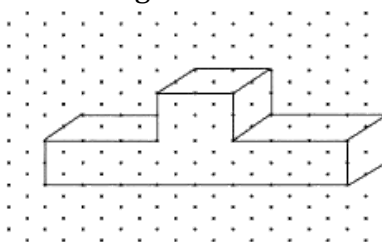


(iv)

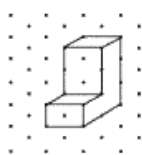
**Sol:** The isometric sketch of these figures can be drawn as follows.



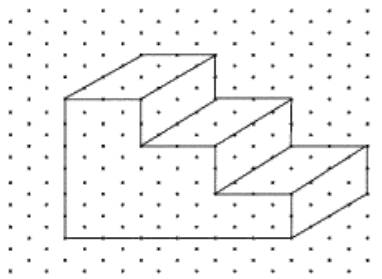
(i)



(ii)



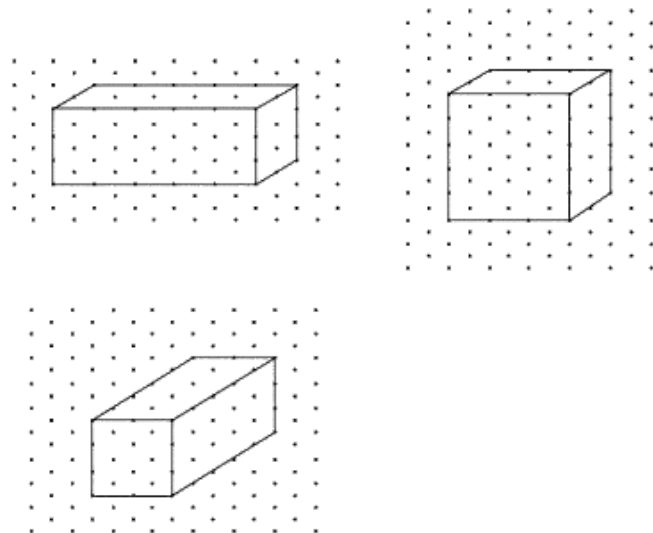
(iii)



(iv)

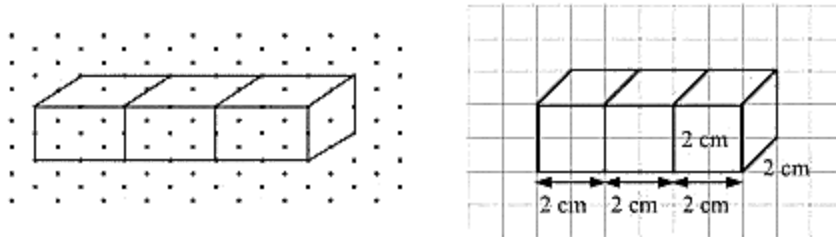
**Q.2** The dimensions of a cuboid are 5 cm, 3 cm and 2 cm. Draw three different isometric sketches of this cuboid.

**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.

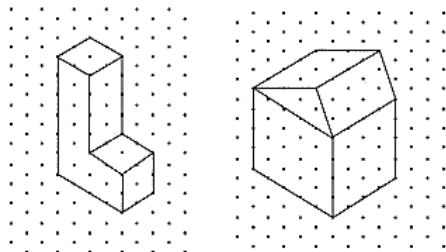
**Sol:** When three cubes, each of 2 cm edge, are placed side by side, a cuboid with dimensions as 6 cm, 2 cm, and 2 cm will be formed.



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.

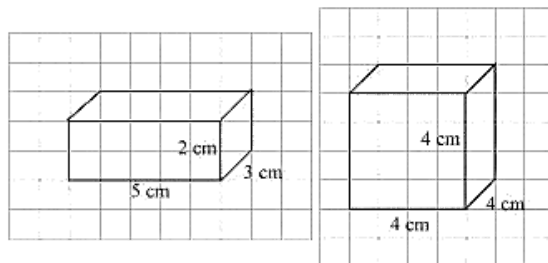


**Q.5** Give (i) an oblique sketch and (ii) an isometric sketch for each of the following:

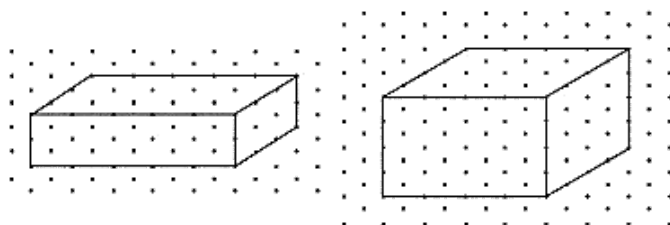
(a) A cuboid of dimensions 5 cm, 3 cm and 2 cm. (Is your sketch unique?)

(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.