

CHAPTER - 15VISUALISING SOLID SHAPESExercise 15.1

Q1. Identify the nets which can be used to make cubes (cut out copies of the nets & try it)



This net can't be used to make cubes.



This net can be used to make cubes.



This net can be used to make cubes.



This net can be used to make cubes.



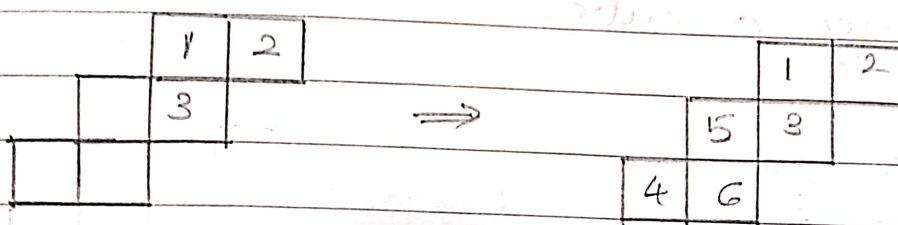
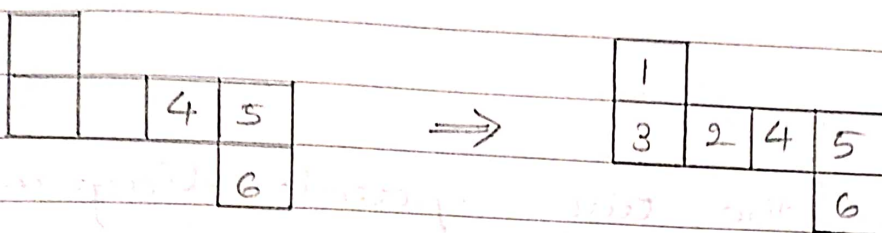
This net can't be used to make cubes.



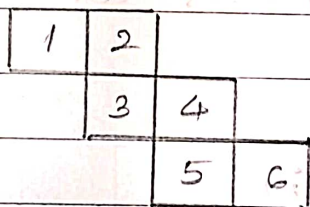
This net can be used to make cubes.

Q2. Dice are cubes with dots on each face. Opposite faces of a die always have a total of seven dots on them.

Here are two nets to make dice (cubes); the number inserted in each square indicate the number of dots in that box.



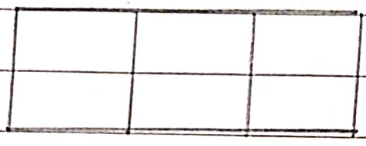
Q3. Can this be a net for a die? Explain your answer.



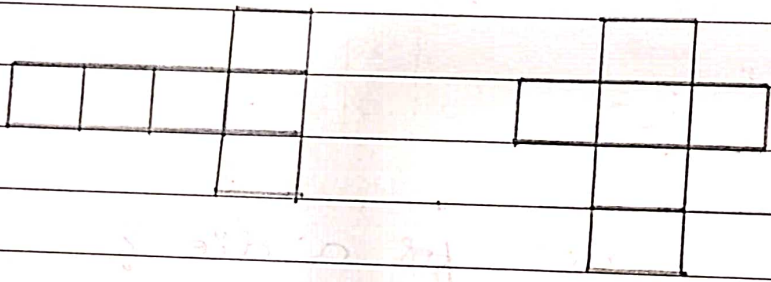
By observing the figure we can say that one pair of opposite face will have 1 and 4 & another pair of opposite face will have 3 and 6. The sum of these two opposite faces are not equal to 7.

∴ This given net cannot be a net for a die.


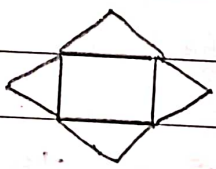
Q4. There is an incomplete net for making a cube. Complete it in at least two different ways. Remember that a cube has six faces. How many are there in the net here?







These are the two separate diagrams of nets for making a cube.





Q5. Match the following nets with appropriate solids:

a)  (i) 

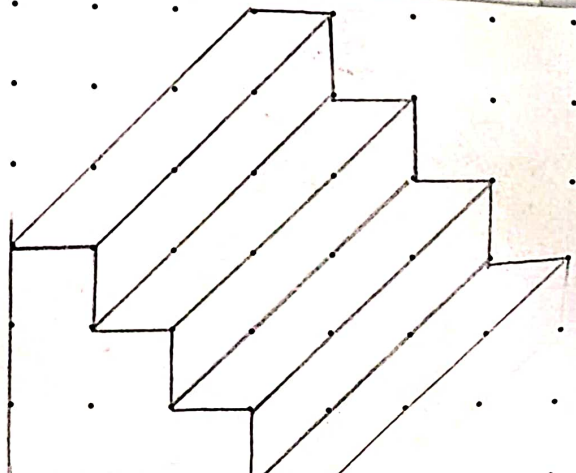
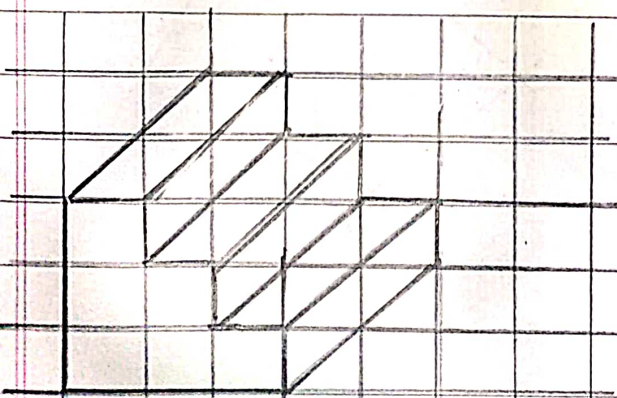
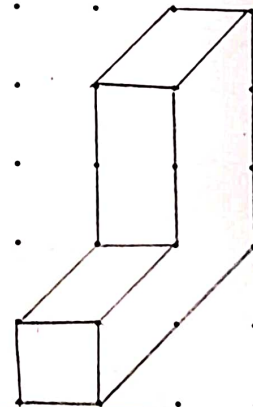
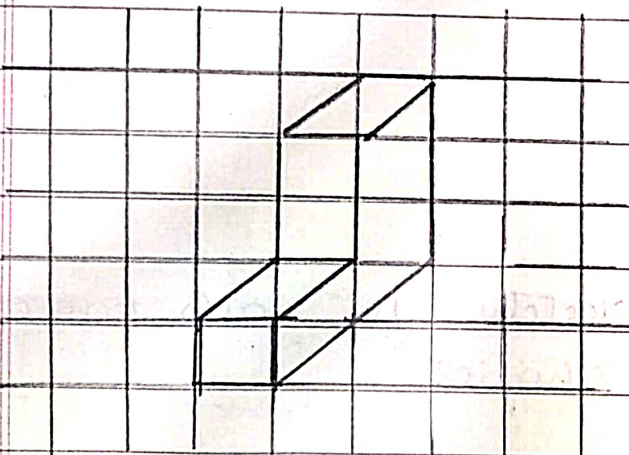
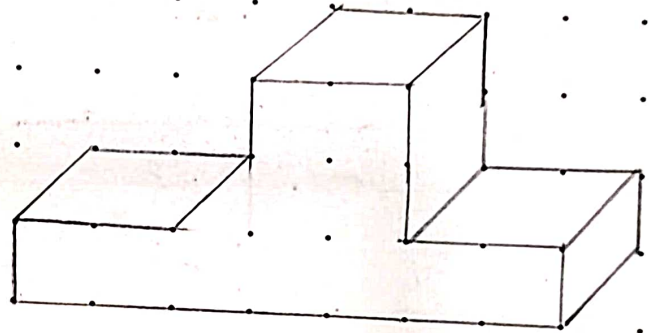
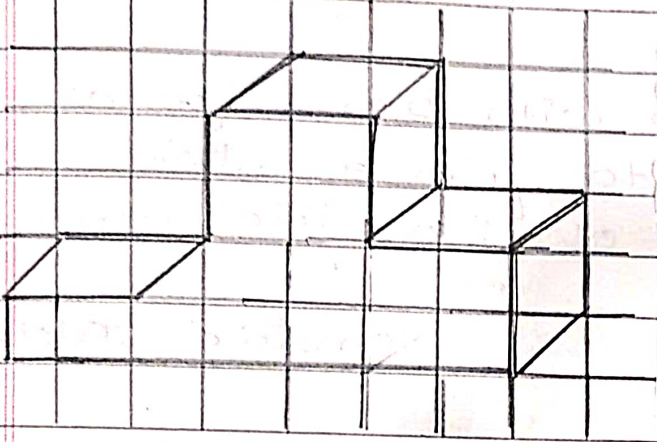
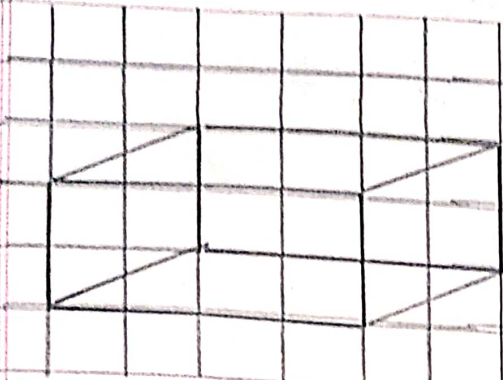
b)  (ii) 

c)  (iii) 

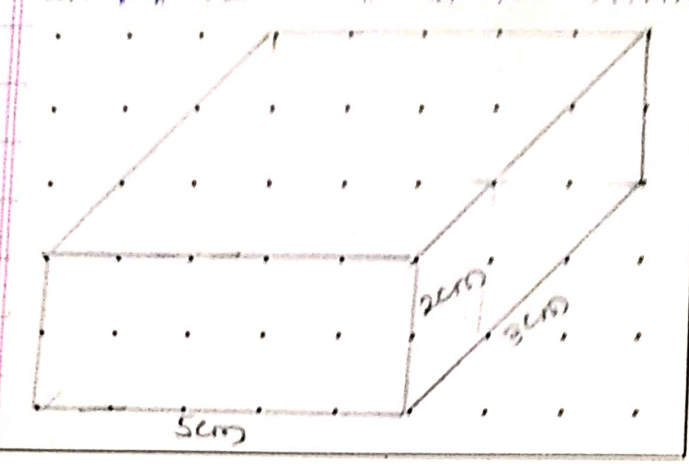
d)  (iv) 

Exercise 1512

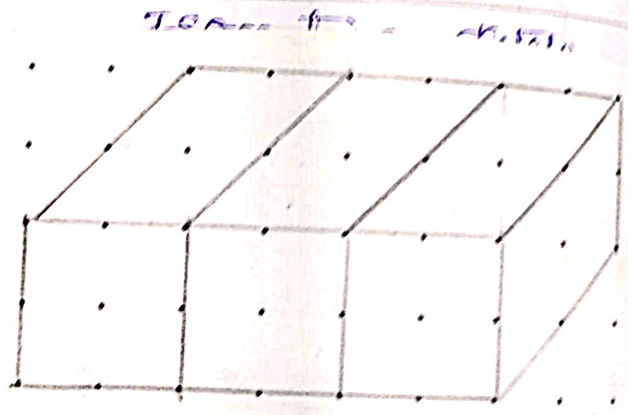
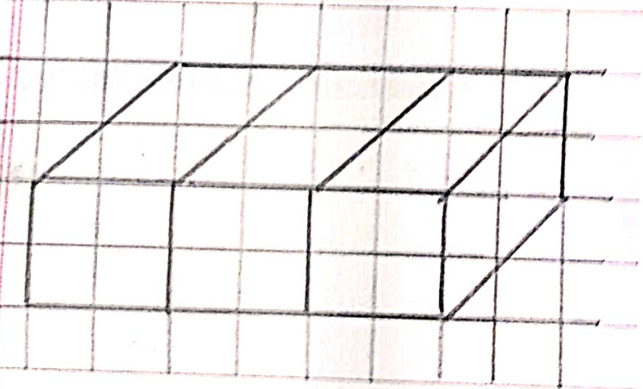
1. Use isometric dot paper & make an isometric sketch for each one of the given shapes:



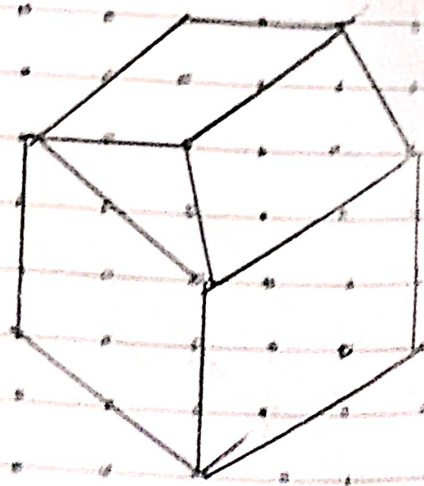
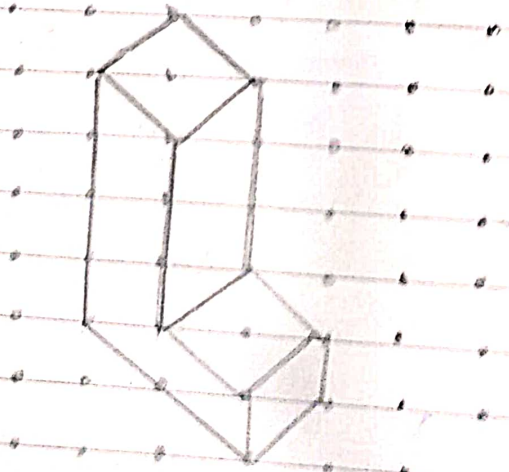
Q2. The dimensions of a cuboid are 5cm, 3cm, 2cm. Draw three different isometric views of the cuboid.

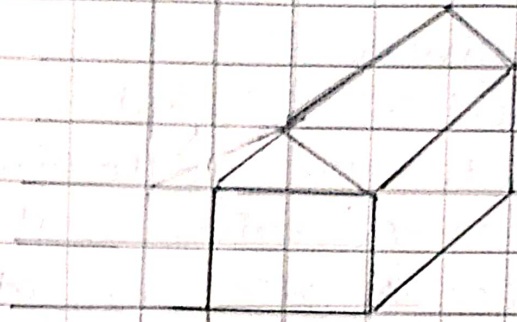


Q3. Three cubes each with 2cm edge are placed side by side to form a cuboid. Sketch an oblique or isometric sketch of this cuboid.
Oblique sketch



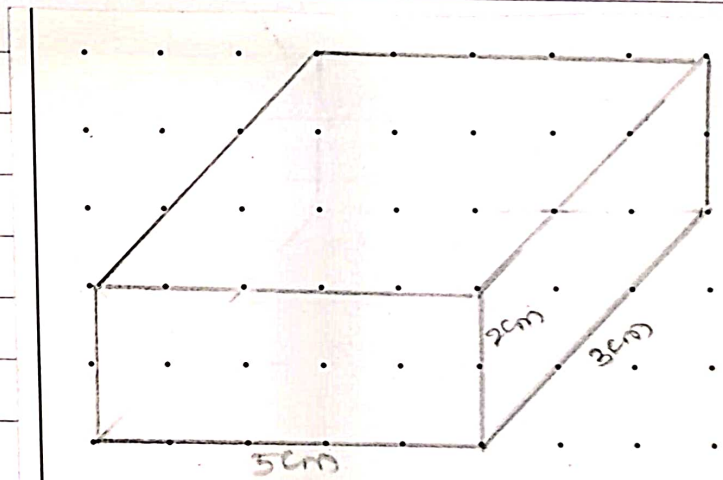
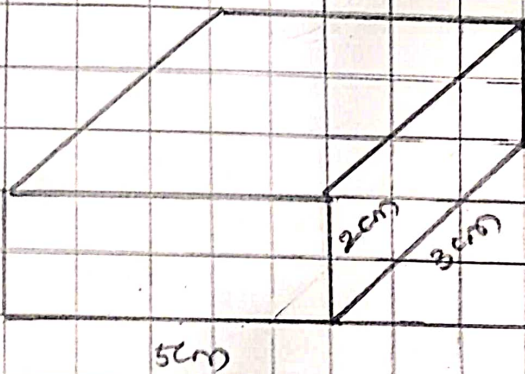
Q4. Make an oblique sketch for each one of the given isometric shapes.





- Q5. Give (i) an oblique sketch & (ii) an isometric sketch for each of the following.
- (a) A cuboid of dimensions 5cm, 3cm, 2cm.
- (b) A cube with an edge 4cm long.

a)



b)

