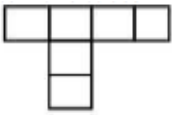
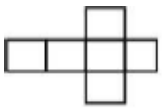
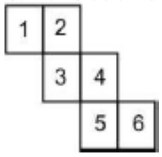
CLASS VII – MATHEMATICS – CHAPTER 15
VISUALISING SOLID SHAPES

Name: Date:

Q01. Fill in the blanks:
(a). The corners of a solid shape are called its _____.
(b). A cube has _____ diagonals.
(c). The number of vertices of a cuboid is _____.
(d). All the six faces of a _____ are congruent and adjacent faces are perpendicular to each other.

Q02. Give two examples of each plane figures and solid shapes..
Q03. Define the net of a solid.
Q04. Find the surface area of a wooden box whose shape is of a cube of edge 15 cm.
Q05. How many types of sketches of a solid are possible? Name them.
Q06. How an object which is in 3D can be viewed in different ways? Name all the ways.
Q07. What is an oblique sketch?
Q08. What will happen to volume of a cube of side 10 cm, if its each edge is tripled?
Q09. How many types of sketches of a solid are possible? Name them.
Q10. Find the total area of the four walls of a room whose dimensions are 6 m by 4.5 m by 3m. 06. What will happen to volume of a cube of side 10 cm, if its each edge is doubled?
Q11. A brick measures 24 cm by 12 cm by 10 cm. How many such bricks are needed to construct a wall of length 5 m, height 2.88 m and thickness 20 cm?
Q12. If two cuboids of dimensions 3 cm × 3 cm × 6 cm are placed height by height, what would be the dimensions of the resulting figure be?
Q13. A box is in the shape of a cuboid. If its length, breadth and height are 50 cm, 20 cm and 15 cm respectively, find its surface area.
Q14. How many wooden cubical blocks of edge 12 cm can be cut from another cubical block of wood of edge 3 m and 60 cm?
Q15. If two cubes of dimensions 2 cm × 2 cm × 2 cm are placed side by side, what would the dimension of the resulting cuboid be?
Q16. A village, having a population of 4000, requires 150 litres water per head per day. It has a tank measuring 20 m by 15 m by 6 m. For how many days the water of this tank will last?
Q17. Write the number of faces, edges and vertices in the solids given below.
(a). Cube (b). Pyramid (c). Prism (d). brick
Q18. Draw the figure of cross sections obtained by cutting vertically the following shapes.
(a). Cylinder (b). Sphere (c). Prism (d). Cone
Q19. Identify the nets which can be used to make cubes.
(a).  (b). 



Q20. Can this be a net for a dice? Explain your answer?
Q21. Make a net for the given cone.