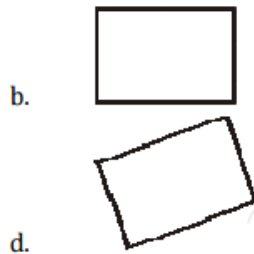
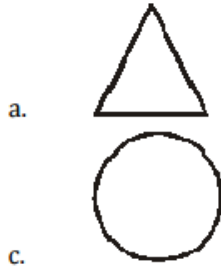


Class: VII  
Subject: Math's  
Topic: Understanding shapes  
No. of Questions: 20

Q1. Flat surfaces of a solid shape are called its edges. (True/False)

Q2. Which figure does represent circle?



Q3. What is an oblique sketch?

Q4. If two cuboids of dimensions  $3\text{ cm} \times 3\text{ cm} \times 6\text{ cm}$  are placed height by height, what would be the dimensions of the resulting figure be?

Q5. The number of vertices of a cuboid is \_\_\_\_\_.

Q6. How many wooden cubical blocks of edge  $12\text{ cm}$  can be cut from another cubical block of wood of edge  $3\text{ m}$  and  $60\text{ cm}$ ?

Q7. A village, having population of  $4000$ , requires  $150$  litres water per head day. It has a tank measuring  $20\text{ m}$  by  $15\text{ m}$  by  $6\text{ m}$ . For how many days the water of this tank will last?

Q8. A brick measures  $24\text{ cm}$  by  $12\text{ cm}$  by  $10\text{ cm}$ . How many such bricks are needed to construct a wall of length  $5\text{ m}$ , height  $2.88$  and thickness  $20\text{ cm}$ ?

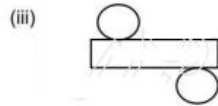
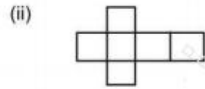
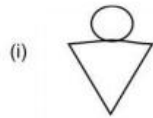
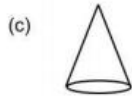
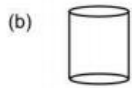
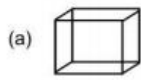
Q9. Write the number of faces, edges and vertices in the solids given below.

- a. Prism
- b. Brick

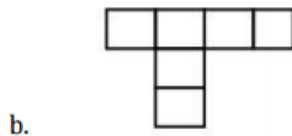
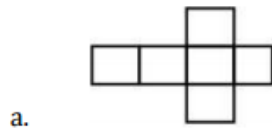
Q10. Give two examples of solid shapes.

Q11. Find the surface area of a wooden box whose shape is of a cube of edge  $15\text{ cm}$ .

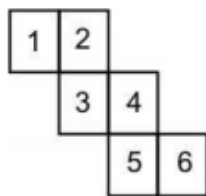
Q12. Match the nets with appropriate solids:



Q13. Identify the nets which can be used to make cubes.



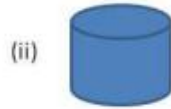
Q14. Can this be a net for a die? Explain your answer?



Q15. Match these two dimensional figures with their names.



(a) Triangle



(b) Rectangle

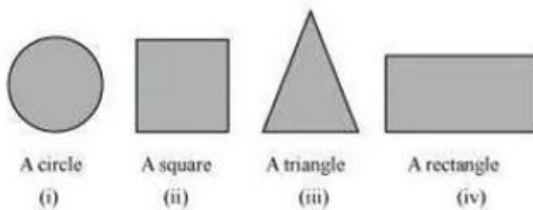


(c) Trapezium



(d) Cylinder

Q16. Here are the shadows of some 3-D objects, when seen under the lamp of an overhead projector. Identify the solids (s) that match each shadow. (There may be multiple answer for these!)



Q17. Examine if the following are true statements:

- (i) The cube can cast a shadow in the shape of a rectangle.
- (ii) The cube can cast a shadow in the shape of a hexagon.

- Q18. When we cut a corner of a cube as shown in the figure 12.19, we get the cutout piece as:
- Square pyramid
  - Trapezium prism
  - Triangular pyramid
  - A triangle



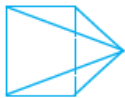
Fig. 12.19

- Q19. State whether the figure 12.6 shows rotational symmetry. If yes, then what is the order of rotational symmetry?

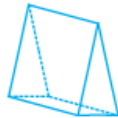


Fig. 12.6

- Q20. Identify the following figures:



(i)



(ii)

Fig. 12.7