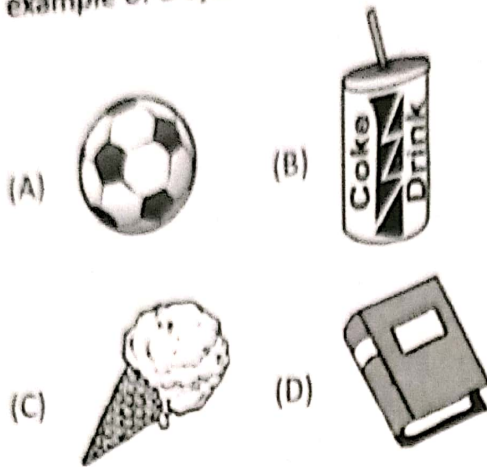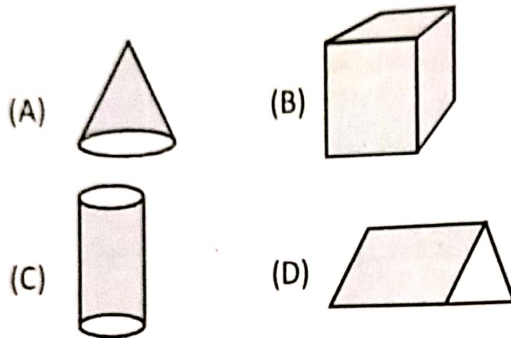# Level - 1

[Each question has only one correct option]
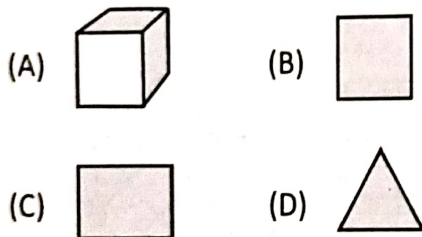
01 Which of the following is the BEST example of a cylinder ?

(A) ⚽

(B) Coke Drink

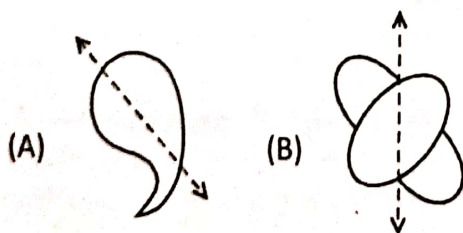(C) 🍦

(D) 📕

02 Which of the following figures has only 3 faces ?

(A) △ (cone)

(B) ▭ (cube)

(C) ▯ (cylinder)

(D) ◿ (triangular prism)

03 Which of the following figures is different from the other three ?

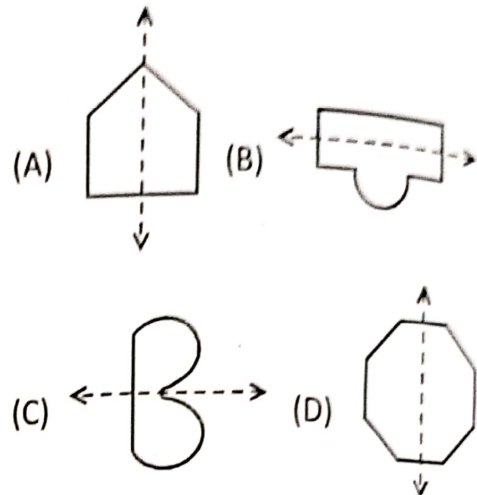(A) ▱ (cube)

(B) ▢ (square)

(C) ▭ (rectangle)

(D) △ (triangle)

04 Identify the symmetrical figure with the dashed line as the line of symmetry.

(A)

(B)
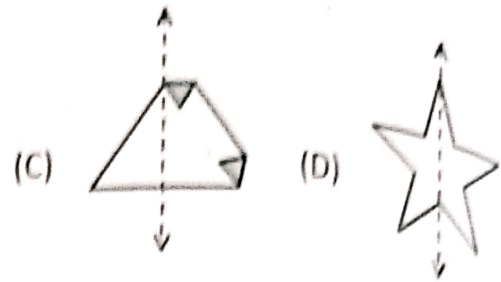
05 Which figure is NOT symmetrical about the dashed line ?
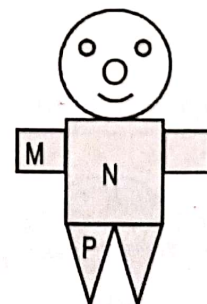
(C)

(D)

(A)

(B)

(C)

(D)

06 Which of the following points is not in line with the others ?
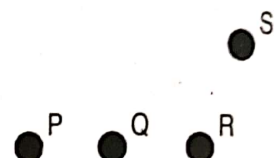
(A) P

(B) Q

(C) R
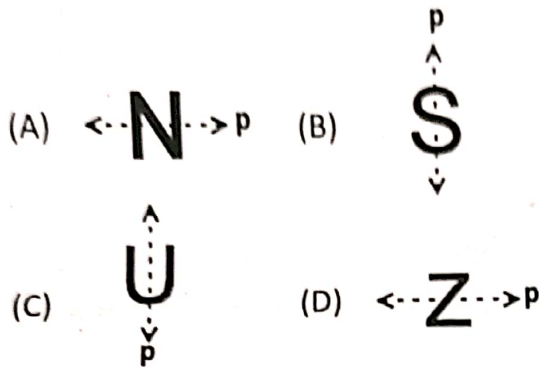
(D) S

07 Some parts of the given figure are named.

M   N

P
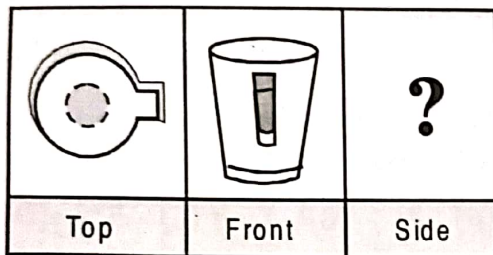
What is the name of a triangle in the given figure ?

(A) M   (B) O   (C) N   (D) P

08 In which figure is the line p, the line of symmetry ?

(A) <--N-->p   (B) S

(C) U   (D) <--Z-->p

09 Observe the different views of an object given in figure.

Top	Front	Side
		?

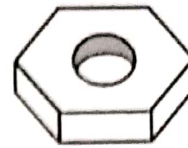Which of the following is the side view of the object?

(A)   (B)

(C)   (D)
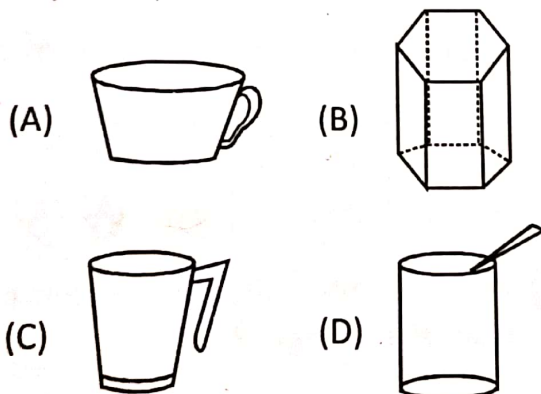
10 A rectangle has 4 vertices and 4 sides. A triangle has 3 vertices and 3 sides. How many vertices (v) and sides (s) does a circle have ?
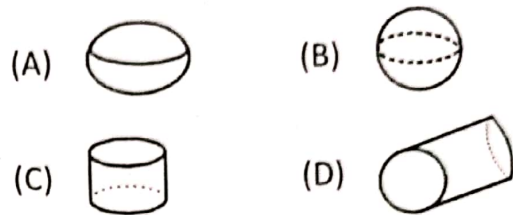
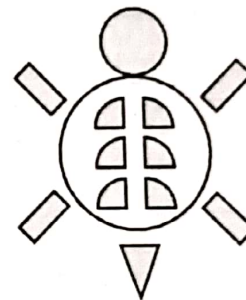(A) v = 2, s = 2   (B) v = 5, s = 5

(B) v = 1, s = 1   (D) v = 0, s = 0

11 Observe the solid given in the figure.

Which of the following is the correct solid that sits exactly into the given solid ?

(A)   (B)

(C)   (D)

(12-14) : Arjun draws a tortoise using some basic shapes as shown in the figure.

12 How many different shapes did he use to draw the tortoise ?

(A) 4   (B) 10

(C) 6   (D) 3

13 Which shape used is the most in number ?

(A) Quadrant   (B) Rectangle

(C) Triangle   (D) Circle

14 Which shape in the picture is twice in number as the number of triangles in it ?

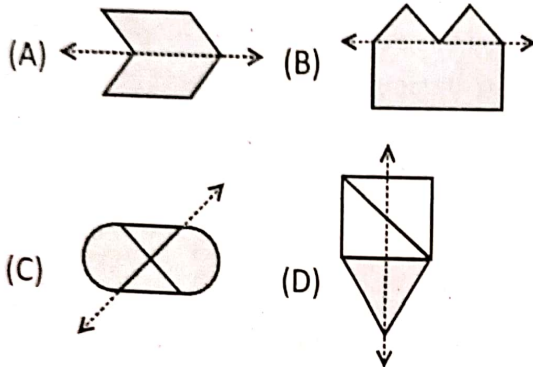(A) Rectangle   (B) Circle

(C) Quadrant   (D) Both (A) & (B)

15 How many edges does the solid given in the figure have ?

(A) 8   (B) 6   (C) 9   (D) 5

16 Which of the following figures is symmetrical about the dotted line ?
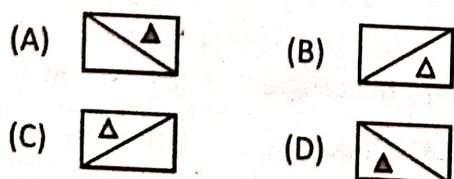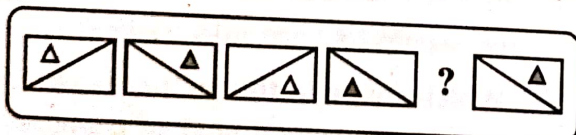
(A)   (B)

(C)   (D)

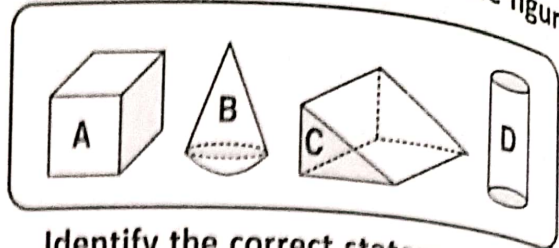**17** How many same sized triangles make up the shape given in the figure ?
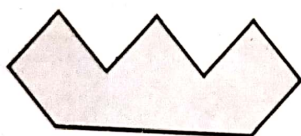
(A) 6   (B) 3   (C) 8   (D) 12

18 Which shape completes the given pattern ?

(A)   (B)

(C)   (D)

19 Observe the solids given in the figure.

Identify the correct statement.

(A) Solid A has 6 curved faces.

(B) Solid D has 3 flat faces & 1 curved face.

(C) Solid B has 2 curved faces.

(D) Solid C has 4 flat faces.

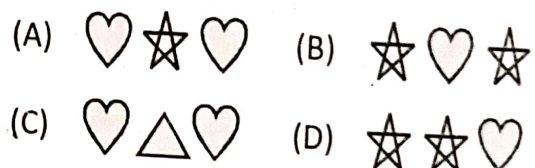**20** Observe the given figure of a solid.

How many faces of the given solid have more than 4 sides ?
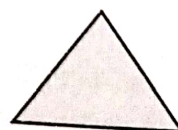
(A) 4   (B) 1   (C) 5   (D) 2

21 Observe the given pattern.

What comes next in the pattern ?

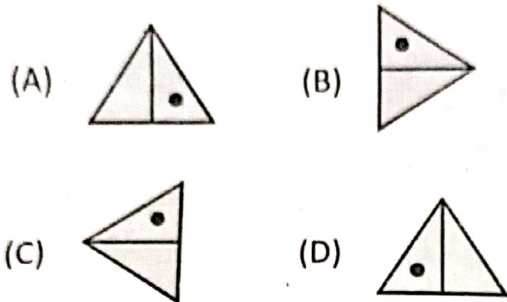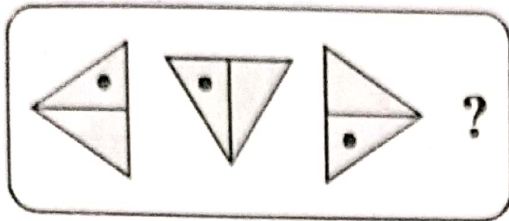(A)   (B)

(C)   (D)

22 Which of the following statements is true of a triangle ?

(A) A triangle has 3 sides.

(B) A triangle has 3 vertices.

(C) A triangle has 4 sides.

(D) Both (A) and (B)

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23 Study the given pattern and find the missing figure.
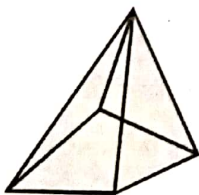

(A)

(B)

(C)

(D)

24 How many curved surfaces does the given figure have ?

(A) 3   (B) 2   (C) 0   (D) 1

25 How many vertices does the following figure have ?
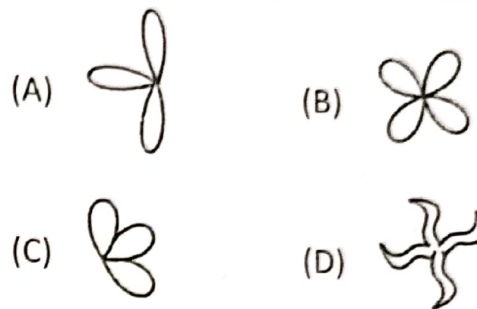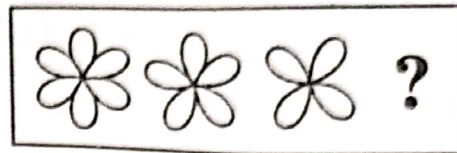

(A) 12   (B) 5

(C) 6   (D) 4

26 Pratham wants to make a shape by folding and cutting the corners of a rectangular sheet of paper shown in the figure for one corner.
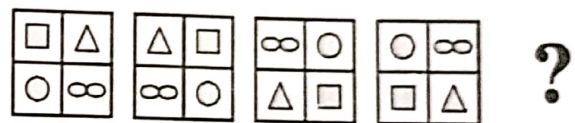

How many sides does the sheet have after he cuts the four corners ?
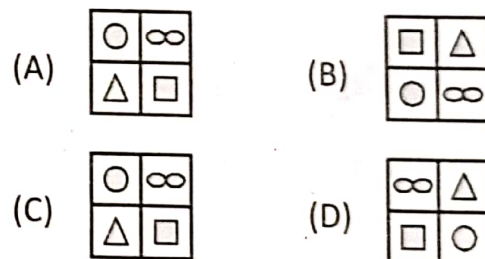
(A) 4   (B) 8   (C) 16   (D) 12

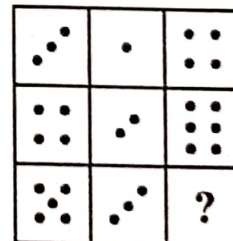**27** Which shape is the next in the given pattern ?

(A)

(B)

(C)

(D)

28 Observe the pattern given.

Which figure completes the pattern ?

(A)

(B)

(C)

(D)

29 Identify the number of dots in the missing pattern.

(A) 6   (B) 5

(C) 8   (D) 4
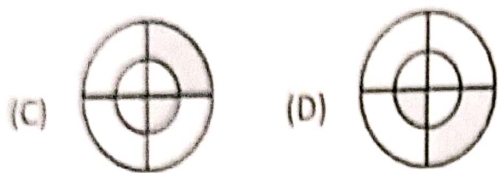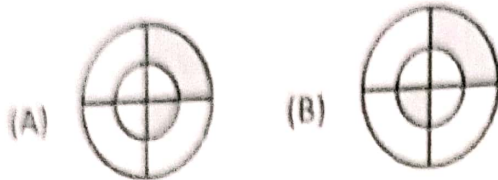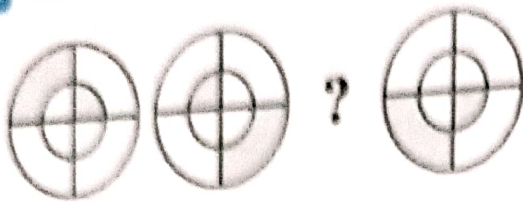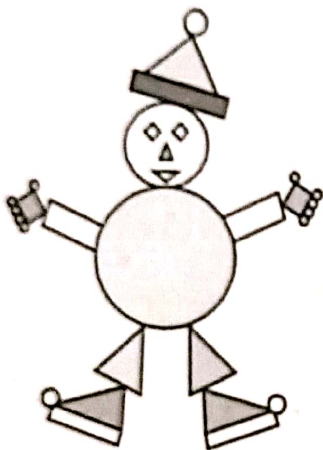
Level - 2

[Each question has only one correct option]

30 Which figure completes the pattern?

?

(A)

(B)

(C)

(D)

(31-32): Observe the given figure.

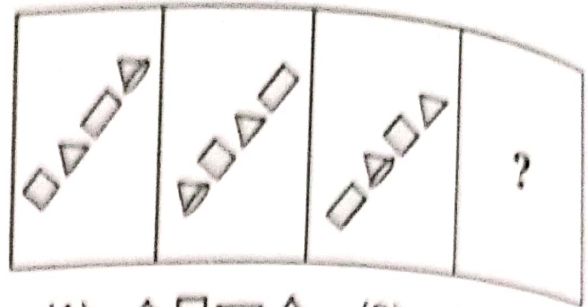**31** How many triangles are there in the given figure ?

(A) 6   (B) 3

(C) 7   (D) 5

32 What is the difference between the number of circles and the number of triangles in the given figure ?

(A) 8   (B) 5

(C) 6   (D) 3

33 Find the next order of figures in the given pattern.

(A) △□▭△   (B) △□△□

(C) △▭□△   (D) △△□□

34 Choose the correct statement from the following.

(A) A cylinder has 3 faces.

(B) A triangle has 3 sides and 4 vertices.

(C) All sides of the rectangle are equal.

(D) A cuboid has 4 flat faces and 12 straight edges.

35 Rakesh has 10 one rupee coins of similar kind. He puts them exactly one on the other. Which shape is formed by such an arrangement ?

(A) Circle   (B) Cylinder

(C) Cube   (D) Cone

36 Choose the false statement from the following.

(A) A cuboid has 3 pairs of opposite faces.

(B) The number of vertices of a cube is 6.

(C) All sides of a square are equal.

(D) A cuboid is a three dimensional figure.

37 How many cubes are there in the solid given in the figure ?
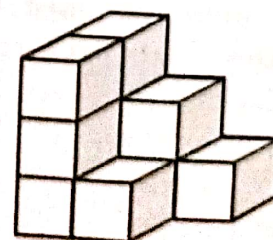
(A) 8   (B) 6   (C) 7   (D) 10

38 What shape is the 37ᵗʰ in the given pattern ?
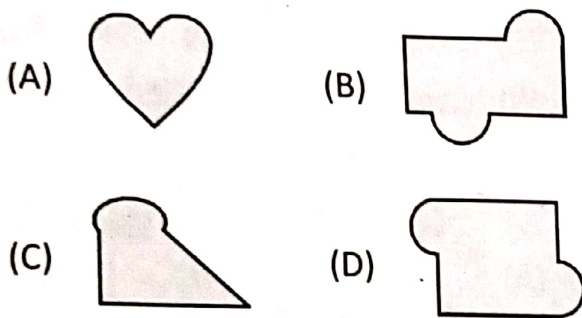
△△O□ △△O□ △△O□ ....

(A) ○   (B) □

(C) △   (D) Either (A) or (B)

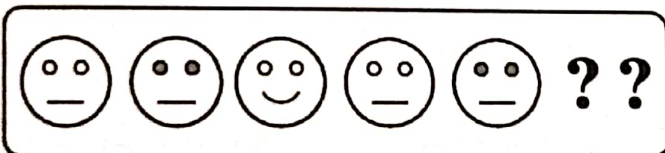**39** Study the given information.

- The shape is made up of different shapes.
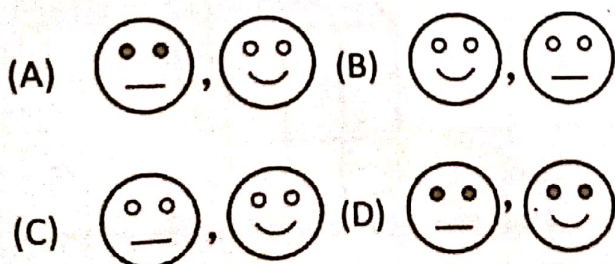- It has a square.
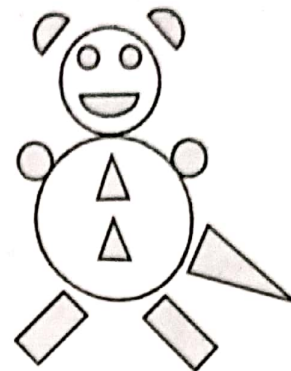- It has 2 semicircles.

Which shape is it ?

(A)   (B)

(C)   (D)

40 Observe the given pattern.

? ?

Which 2 figures replace the question marks ?

(A)   (B)

(C)   (D)

41-43: Observe the given figure.

41 How many different shapes are used to form the given figure ?
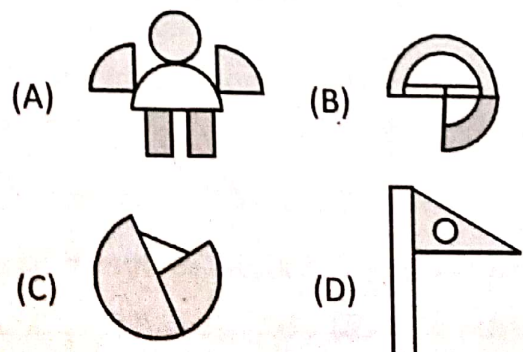
(A) 3   (B) 4

(C) 15   (D) 9

42 Which two shapes are the same in number in the given figure ?

(A) Semicircle, Triangle

(B) Circle, Semicircle

(C) Circle, Triangle

(D) Triangle, Rectangle

43 If all the circles in the given figure are cut into half, what is the total number of semicircles in it ?

(A) 6   (B) 12

(C) 3   (D) 15

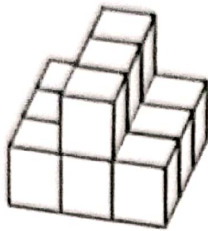**44** Which of these figures has the greatest number of quarter circles ?

(A)   (B)

(C)   (D)

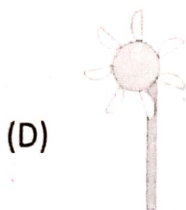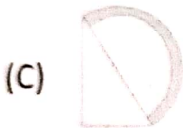## Previous Contest Questions
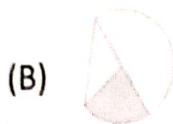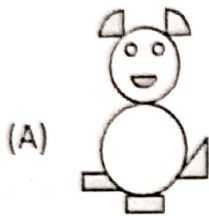[Each question has only one correct option]

45 How many cubes are there in the solid given in the figure ?

(A) 7   (B) 9   (C) 13   (D) 12

46 Which figure is made up of 1 triangle, 1 semicircle and 1 quadrant ?
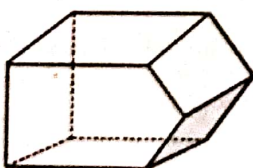
(A)   (B)

(C)   (D)

47 Anita made an aeroplane using different shaped building blocks, as shown in the figure.
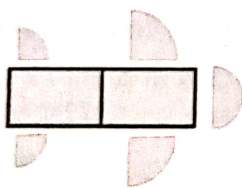
How many different shapes did she use ?
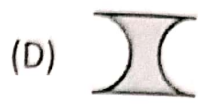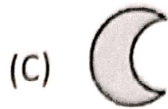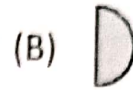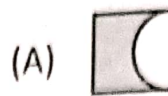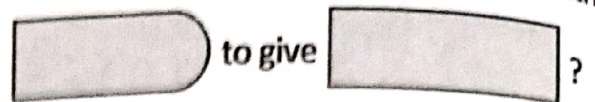
(A) 2   (B) 4   (C) 3   (D) 7
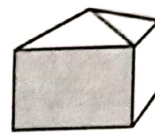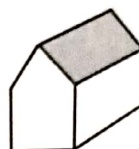
48 Observe the solid in the given figure.

How many flat surfaces does it have ?

(A) 7   (B) 5   (C) 6   (D) 4

49 Which is the figure that can combined with ⬭ to give ⬭ ?
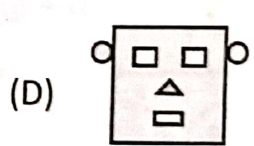
(A) ❨   (B) ▷

(C) ☾   (D) ✗
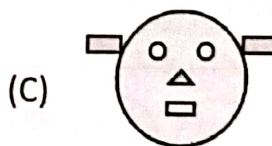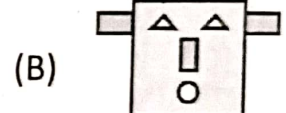
50 All the figures shown below represent solid objects with 1 shaded face. Which solid objects have shaded face of rectangle ?

A   B   C   D
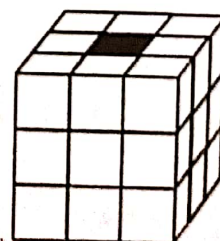
(A) A & C only   (B) A & D only
(C) A, B & C only   (D) B, C & D only

51 Which of the following figures contains only one circle ?

(A)   (B)

(C)   (D)

52 The solid given in the figure is made up of some small cubes. The centre of the solid is hollow.

Find the number of cubes in the solid.

(A) 14   (B) 24   (C) 21   (D) 27