MATHEMATICS

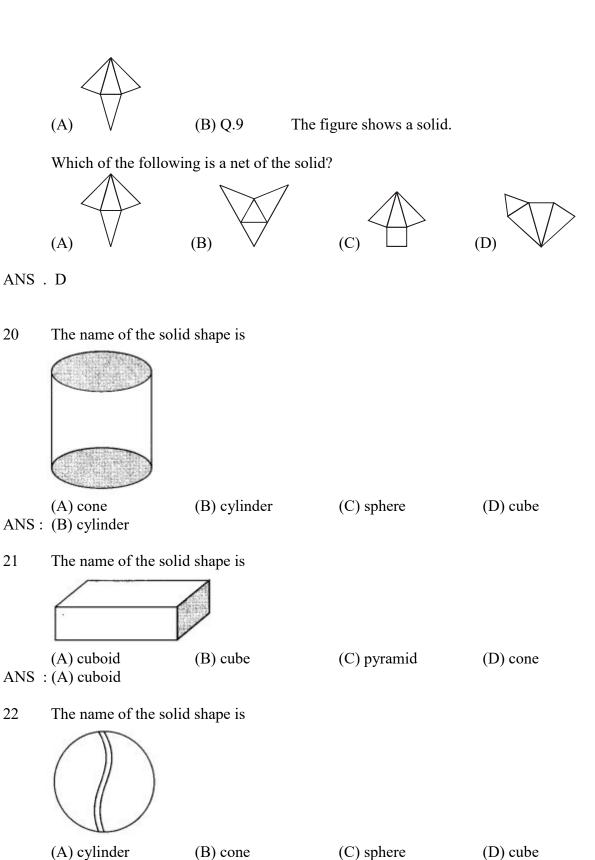
VISUALISING SOLID SHAPES

1	The net of a solid consists of three rectangles and two triangles. This may be the net of				
	(A) Cuboid	(B) Pyramid	(C) Triangular Prism	(D) None of these	
ANS.	C				
2	A rectangular pyrami	d has:			
	(A) 2 faces	(B) 4 faces	(C) 5 faces	(D) 6 faces	
ANS	. C				
3	The other name of a t	etrahedron is:			
	(A) Triangular Pyram (C) Square Pyramid	nid	(B) Triangular Prism(D) None of these		
ANS	. A				
4	A square prism has:				
	(A) 5 edges	(B) 8 edges	(C) 12 edges	(D) 15 edges	
ANS	. C				
5	Circle is a:				
	(A) Plane figure	(B) Solid figure	(C) Both (A) and (B)	(D) None of these	
ANS	. A				
6	The net for a cylinder without top and bottom is a:				
	(A) Rectangle	(B) Circle	(C) Triangle	(D) None of these	
ANS	. A				
7	A cone has:				
	(A) 1 face	(B) 2 faces	(C) 3 faces	(D) 5 faces	

ANS	. B				
8	The name of the figure which has 6 vertices, 9 edges and 5 faces is:				
	(A) Cuboid	(B) Cube	(C) Cone	(D) Triangular Prism	
ANS	. D				
9	Name the solid figure	e which has no vertex a	and no edge:		
	(A) Cylinder	(B) Cone	(C) Sphere	(D) Tetrahedron	
ANS	. C				
10	A petagonal pyramid	has:			
	(A) 3 vertices	(B) 4 vertices	(C) 6 vertices	(D) None of these	
ANS	. C				
11	A line where two fac	ees of a solid meet is ca	alled its		
	(A) Face	(B) Edge	(C) Vertex	(D) None of these	
ANS	. В				
12	A square pyramid has	s triangula	ar faces.		
	(A) 4	(B) 3	(C) 2	(D) 1	
ANS	. A				
13	A cube has	vertices and	surfaces.		
	(A) 6, 3	(B) 8, 4	(C) 8, 6	(D) 7, 5	
ANS 14	. C Number of vertices in	n a cone is:			
	(A) 1	(B) 2	(C) 0	(D) None of these	
ANS	. A				

15	Shape of the base of tetrahedron is				
	(A) Triangular	(B) Square	(C) Rectangle	(D) Circular	
ANS	. A				
16	Using Euler's formul edges?	a find the number of f	aces in a polyhedron h	naving 6 vertices and 12	
	(A) 6	(B) 7	(C) 8	(D) 9	
ANS	. C				
17	The figure shows a so	olid.			
	Which of the following net of the solid?				
ANS	(A) C	(B) \(\sum_{\colored}(C) \)	(D) V		
18	Which of the followi	ng is 3-d figure?			
	(A) Rectangle	(B) Cylinder	(C) Circle	(D) Octagon	
ANS	. В				
19	The figure shows a se	olid.			

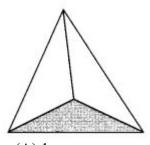
Which of the following is a net of the solid?



ANS: (C) sphere

The name of the solid shape is 23 (A) cube (B) cylinder (D) sphere (C) cone ANS: (A) cube 24 The name of the solid shape is (A) cylinder (B) cone (C) cuboid (D) sphere ANS: (B) cone The name of the solid shape is 25 (A) cylinder (B) cone (C) sphere (D) pyramid ANS: (D) pyramid The number of vertices of a cube is 26 (A) 8(B) 12 (C) 6(D) 3Answer: (A) 8 The number of edges of a cube is 27 (A) 8 (B) 12 (C) 6(D)3ANS: (B) 12 The number of faces of a cube is 28 (C) 6(A) 8(B) 12 (D)3

ANS: (C) 6



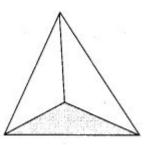
(A) 1 ANS: (D) 4

(B) 2



(D) 4

The number of faces of the solid shape is



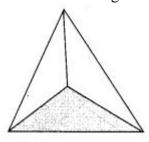
(A) 1 ANS: (D) 4

(B) 2

$$(C)$$
 3

(D) 4

The number of edges of the solid shape is



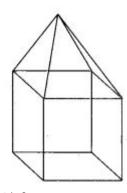
(A) 1 ANS: (D) 6

(B) 2

(C)3

(D) 6

The number of vertices of the solid shape is



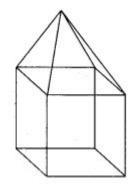
(A) 9 ANS: (A) 9

(B) 4

(C) 6

(D) 8

The number of faces of the solid shape is 33

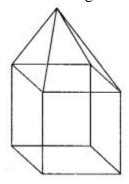


(A)4ANS: (C) 9

(B) 6

(D) 8

34 The number of edges of the solid shape is



(A) 16

(B) 9

(D) 4

ANS: (A) 16

Two cubes of edge length 2 cm are placed side by side. The length of the resulting cuboid 35 is

- (A) 2 cm
- (B) 4 cm
- (C) 1 cm

(D) none of these

ANS: (B) 4 cm

36 ANS	What cross-section do (A) Square : (A) Square	you get when you giv (B) Rectangle	ve a horizontal cut to a C) Triangle	die? (D) Circle
37 ANS	What cross-section do (A) Square : (A) Square	you get when you giv (B) Rectangle	ve a vertical cut to a bridge (C) Triangle	ick? D) Circle
38 ANS	What cross-section do (A) Triangle : (D) Rectangle	you get when you giv (B) Circle	ve a horizontal cut to a (C) Square	brick? (D) Rectangle
39 ANS	What cross-section do A) Circle : (A) Circle	you get when you giv (B) Triangle	ve a vertical cut to a row (C) Square	und apple? (D) Rectangle
40 ANS	What cross-section do (A) Circle : (A) Circle	you get when you giv (B) Square	ve a horizontal cut to a (C) Rectangle	round apple? (D) Triangle
41 ANS	What cross-section do (A) Triangle : (A) Triangle	you get when you giv (B) Circle	ve a vertical cut to an io (C) Rectangle	ce-cream cone? (D) Square
42 ANS	What cross-section do (A) Triangle : (B) Circle	you get when you giv (B) Circle	ve a horizontal cut to an (C) Rectangle	n ice-cream cone? (D) Square
43 ANS	The shadow of the land (A) square: (A) square	mp of an a cube when s (B) circle	seen under overhead pr (C) triangle	rojector is (D) rectangle
44 ANS	The number of faces (A) 4: (B) 6	of a rectangular prism (B) 6	is (C) 3	(D) None of these
45 ANS	Opposite faces of at (A) 6: (C) 7 Observe a die and see	die always have a total (B) 5	of dots on them: (C) 7	(D) None of these
46 ANS	The number of edges (A) 4: (C) 8	of a square pyramid is (B) 6	(C) 8	(D) None of these

47 ANS	The number of faces (A) 4: (A) 4	of a triangular pyramid (B) 6	or tetrahedron is(C) 5	(D) 1024
48		th 2 cm edge are placed	d side by side to form a	cuboid. Its length will
ANS	be: (A) 4 cm (C) 6 cm Each cube has one side	(B) 2 cm le 2 cm, therefore sum		(D) None of these
49	The number of triang	ular faces of a triangula	ar prism is	
ANS :	(A) 2 : (A) 2	(B) 1	(C) 4	(D) None of these
50		ng is the number of ver	-	
ANS	(A) 0 : (A) 0	(B) 1	(C) 2	(D) 4
51.	There are			
ANS	(A) 8 : (B) 12 There are 12 line segr	(B) 12 ments that form the ske	(C) 4 elton of the cube.	(D) None of these
52 ANS		lly. What is the cross-s (B) A rectangle	section obtained? (C) A square	(D) A cube
53 ANS	The number of faces (A) 4: (B) 6	of a cube is (B) 6	(C) 8	(D) None of these
54		nsions 2 cm by 2 cm ar	re placed side by side,	what would the
ANS	dimensions of resulting (A) 4, 2, 2 (A) 4, 2, 2 When two cubes are labeled increases, it becomes The breadth = 2, cm a	(B) 2, 4, 2 kept side by side the left $2 + 2 = 4$ cm.	(C) 2, 2, 4 ngth is the only measur	(D) Noun of these rement which
55 ANS		of a triangular prism is (B) 6	(C) 4	(D) None of these
56.	There are(A) 8	faces in a cube. (B) 4	(C) 6	(D) None of these

ANS	: (C) 6 The six flat square su	urfaces that are the skin	of the cube.	
57	Cuboid is an example	e of		
	<u>-</u>	(B) 2-D shape	(C) 3-D shape	(D) None of these
ANS	: (C) 3-D shape	1	1	
58	The vertical cut of a l	brick will show the cro	ess section is	
	(A) circle	(B) pentagon		(D) hexagon
ANS	: (C) rectangle	() 1	()	() &
	There are	. vertices in a cube.		
	(A) 8	(B) 6	(C) 4	(D) None of these
ANS	: (A) 8	,		
	There are 8 vertices of	of the cube.		
60	The number of edges	of a rectangular pyran	nid is .	
	(A) 21	(B) 8	(C) 7	(D) None of these
ANS	: (B) 8		· /	
61.	The number of edges	of a triangular pyrami	d is .	
	(A) 8	(B) 5	(C) 6	(D) None of these
ANS	: (C) 6		· /	
62	Three dimensional sh	napes have :		
	(A) length, breadth, h	neight	(B) length, breadth	
	(C) breadth height	_	(D) None of these	
ANS	: (A) length, breadth, h			
	Which occupy space	and have three demens	sions.	
63				
	(A) 8	(B) 2	(C) 6	(D) 4
ANS	: (C) 6			
64	Identify the correct st	tatement from the follo	owing.	
	(A) A triangle has 3 s	sides and 4 vertices.		
	(B) A cylinder has 3			
	(C) All sides of the re			
		at faces and 12 straigh	t edges.	
ANS	: (B) A cylinder has 3			
65	The number of faces	of a square pyramid is (B) 7	·	
	(A) 4	(B) 7	(C) 5	(D) None of these
ANS	: (C) 5			
66	Rakesh has 10 one ru	pee coins of similar ki	nd. He puts them exact	tly one on the other.
	What shape will he g			

ANS:	(A) Circle (B) Cylinder	(B) Cylinder	(C) Cube	(D) Cone				
67 ANS :	The number of fac (A) 2 (A) 2	es of a cylinder is (B) 1	(C) 3	(D) None of these				
69.	The given figure shows a party cap. What is the cross - section obtained when a horizontal cut parallel to base, is given to the cap? A) Circle B) SquareC) Triangle D) Rectangle							
70.	The given figure shows a Rubik's cube. It is a source of famous puzzle in the form of a cube with 9 squares on each side, and each side of a different colour. What is the cross - section obtained when a vertical cut is given to the Rubik's cube? A) Circle B) Square C) Triangle D) Rectangle							
ANS :								
	71. Which of the following nets cannot be used to form a cube? A) B) C) D) ANS: D							
72.	72. Which three - dimensional figure can be obtained from the given net?							
	A) Cone B) Cylinder							
ANS	C) Triangular prism D) Triangular pyramid ANS: A							
73.	73. Which row is matched incorrectly?							
		Row Three- Dimensional Figure	Horizontal / Vertical Cut	Cross- section Obtained				
		I	Horizontal	Circle				

II		Vertical cut parallel to front face	Rectangle
III	(Sphere)	Vertical	Circle
IV		Vertical cut parallel to Rectangle front face	Rectangle

A) row I

B) row II

C) row III

D) row IV

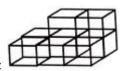
ANS: D

74. The given figure shows a bulb that is kept just above a can of soft drink. What is the shape of the shadow of the can?



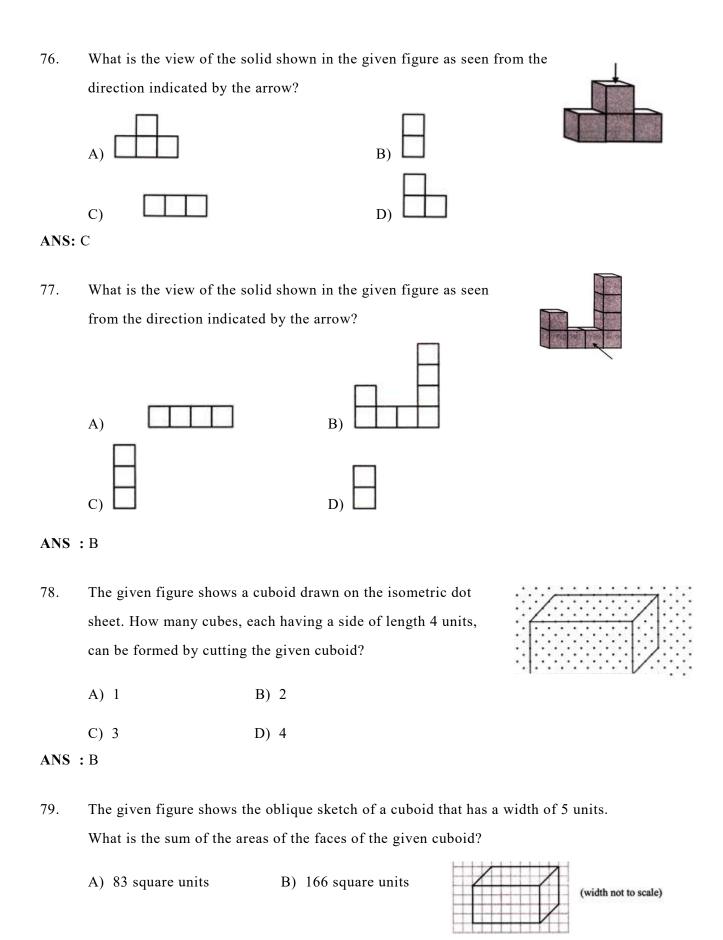
- A) Rectangle
- B) Circle
- C) Square
- D) Triangle

ANS: B



- 75. The number of cubes in figure below is:
 - A) 7
 - B) 8
 - C) 9
 - D) 10

ANS: B



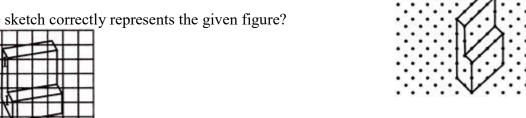
- C) 225 square units D) 332 square units

ANS: B

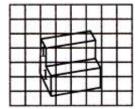
The given figure shows an isometric sketch of a three -80. dimensional

figure.

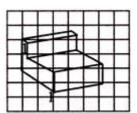
Which oblique sketch correctly represents the given figure?



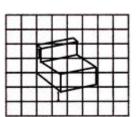
A)



B)



C)



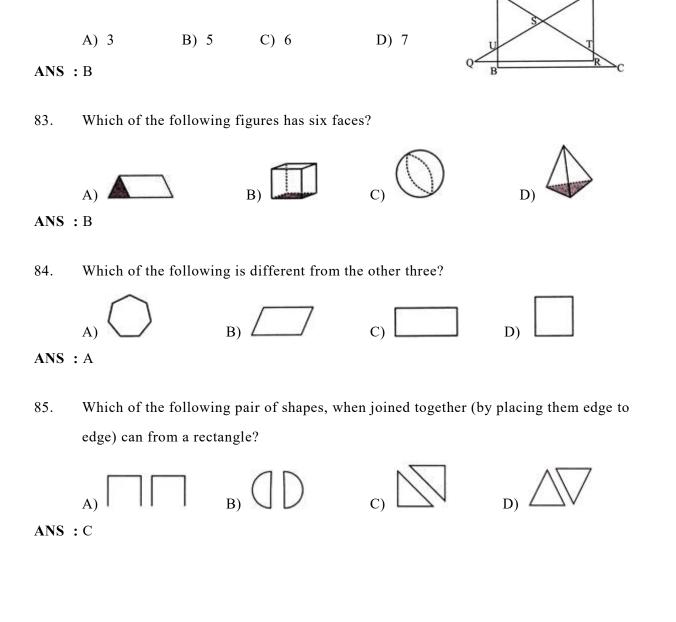
D)

ANS: B

How many edges does the following figure have? 81.

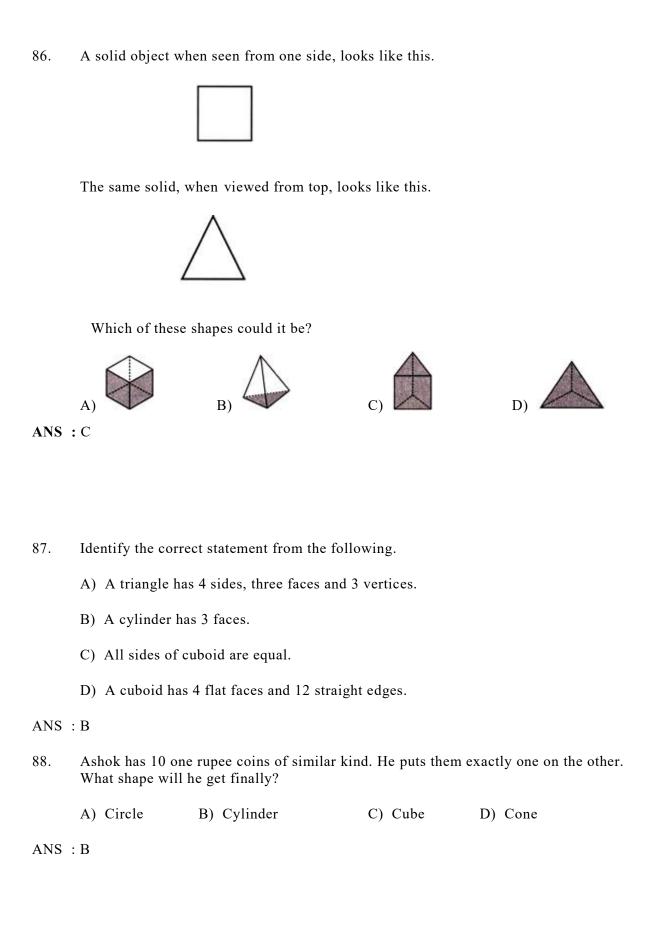
- A) 5
- B) 8
- C) 10
- D) 11

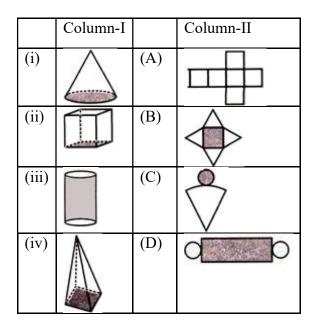
ANS: B



How many triangles can be seen in this figure?

82.





ANS: B

90. Identify 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 square pyramid is a three-dimensional figure.

ANS: B

91. How many corners does the shape given have?

- A) 8
- B) 9
- C) 12
- D) 11

ANS : C

92. What is the number on the face opposite to 4 on a die?

	A) 0	B) 3	C) 2	D) 1	
ANS	: B				
93.	If front view of a so	lid is			
	<u></u>				
	then what could be	the shape of the	solid?		
	A) A die	B) A match be	ox C) A	pyramid	D) A ball
ANS	: C				
94.	The front, side and t	op views of an o	object is as sho	own.	
	Identify the possibl	e object.			
ANS	A) B)		C)	D)	
95.	Observe the object g	iven.			
	What is its side vie	ew indicated by	the arrow?		
	A)	в)		C)	D)

96.	Identify the number o	f vertices of the given	solid.	
	A) 8	B) 6	C) 12	D) 10
ANS:	A			
97.	Identify the cross - se	ction of the given soli	d at the dotted line.	
ANS :	A) : C	B)	C)	D)
98.	A hollow pipe is view obtained?	red from the side indic	cated by the arrow. Wh	nat is the shadow
	A) A ring	B) A circle	C) A cylinder	D) An ellipse
ANS :	: A			
99.	Identify the solid which	ch has the following v	views. Top view Fro	ont view Side view
	A) A cube	B) A cuboid	C) A cone	D) A sphere
ANS :	: B			
			ST.	
100.	The following arrange	ement of cubes is pain	ted on all sides.	How many square
	faces are painted?			

A) 16 B) 9 C) 18 D) 12

ANS: C