MATHEMATICS

VISUALISING SOLID SHAPES

1The net of a solid consists of three rectangles and two triangles. This may be the net of a: @ Cuboid@Pyramid@Triangular Prism@None of these@0010

2A rectangular pyramid has:@ 2 faces@4 faces@5 faces@6 faces@0010

3The other name of a tetrahedron is:@ Triangular Pyramid@Triangular Prism @Square Pyramid@None of these@1000

4A square prism has:@ 5 edges@8 edges @12 edges@15 edges@0010

5Circle is a: @ Plane figure@Solid figure@Both @ and @@None of these@1000

6The net for a cylinder without top and bottom is a:@ Rectangle@Circle@Triangle@None of these@1000

7A cone has:@1 face@2 faces@3 faces@5 faces@0100

8The name of the figure which has 6 vertices, 9 edges and 5 faces is:@ Cuboid@Cube@Cone@Triangular Prism@0001

9Name the solid figure which has no vertex and no edge:@ Cylinder@Cone@Sphere@Tetrahedron@0010

10A petagonal pyramid has:@ 3 vertices@4 vertices@6 vertices@None of these@0010

11 A line where two faces of a solid meet is called its _____@ Face@Edge@Vertex@None of these@0100

12A square pyramid has _____ triangular faces.@ 4@3@2@1@1000

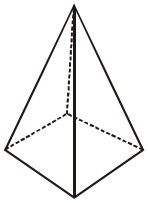
13 A cube has _____ vertices and _____ surfaces.@6, 3@8, 4@8, 6@7, 5@0010

14Number of vertices in a cone is:@ 1@2@0@None of these@1000

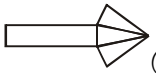
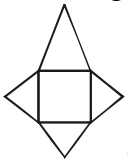
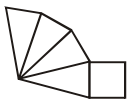
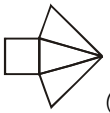
15Shape of the base of tetrahedron is @ Triangular@Square@Rectangle@Circular@1000

16Using Euler's formula find the number of faces in a polyhedron having 6 vertices and 12 edges?@ 6@7@8@9@0010

17 The figure shows a solid.

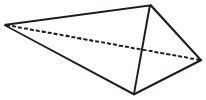


Which of the following is net of the solid?

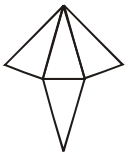
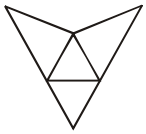
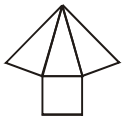
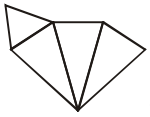
@  @  @  @  @0010

18Which of the following is 3-d figure? @ Rectangle@Cylinder@Circle@Octagon@0100

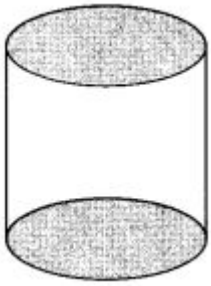
19 The figure shows a solid.



Which of the following is a net of the solid?

@  @  @  @  @0001

20 The name of the solid shape is

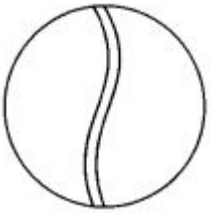


@ cone@cylinder@sphere@cube@0100

21 The name of the solid shape is

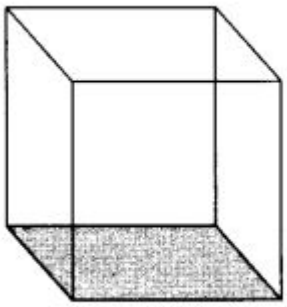
@ cuboid@cube@pyramid@cone@1000

22 The name of the solid shape is



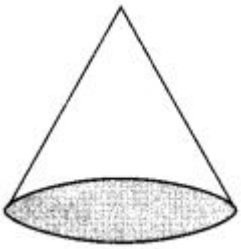
@ cylinder@cone@sphere@cube@0010

23 The name of the solid shape is



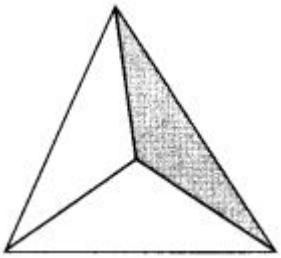
@ cube@cylinder@cone@sphere@0010

24 The name of the solid shape is

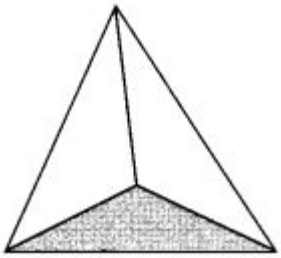


@ cylinder@cone@cuboid@sphere@0100

25 The name of the solid shape is

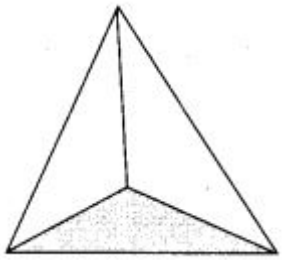


@ cylinder@cone@sphere@pyramid@0001
26 The number of vertices of a cube is@8@12@6@1000
27The number of edges of a cube is@8@12@6@3@0100
28The number of faces of a cube is@ 8@12@6@3@0010
29 The number of vertices of the solid shape is



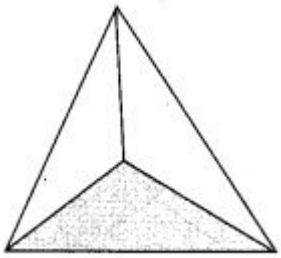
@ 1@2@3@4@@0001

30 The number of faces of the solid shape is



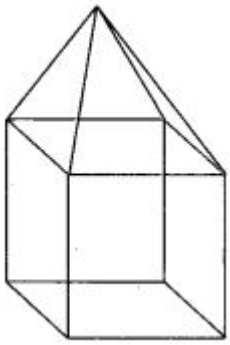
@1@2@3@4@ 0001

31 The number of edges of the solid shape is



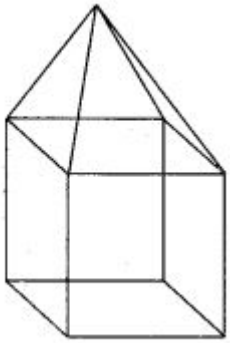
@1@2@3@6@0001

32 The number of vertices of the solid shape is



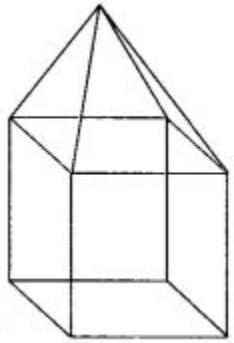
@ 9@4@6@8@1000

33 The number of faces of the solid shape is



@4@6@9@8@@0010

34 The number of edges of the solid shape is



@16@9@6@4@1000

35 Two cubes of edge length 2 cm are placed side by side. The length of the resulting cuboid is@ 2cm@4 cm@1cm@none of these@0100

36 What cross-section do you get when you give a horizontal cut to a die?@ Square@Rectangle@ Triangle@Circle@1000

37What cross-section do you get when you give a vertical cut to a brick?@ Square@Rectangle@Triangle@Circle@1000

38What cross-section do you get when you give a horizontal cut to a brick?@ Triangle@Circle@Square@Rectangle@0001

39What cross-section do you get when you give a vertical cut to a round apple?@ Circle@Triangle@Square@Rectangle@1000

40What cross-section do you get when you give a horizontal cut to a round apple?@ Circle@Square@Rectangle@Triangle@1000

41What cross-section do you get when you give a vertical cut to an ice-cream cone?@ Triangle@Circle@Rectangle@Square@1000

42What cross-section do you get when you give a horizontal cut to an ice-cream cone? @ Triangle@Circle@Rectangle@Square@0100

43The shadow of the lamp of an a cube when seen under overhead projector is @ square@circle@triangle@rectangle@1000

44The number of faces of a rectangular prism is _____.@4@6@3@None of these@0100

45 Opposite faces of at die always have a total of dots on them :@ 6@5@7@None of these@0010

46The number of edges of a square pyramid is _____@4@6@8@None of these@0010

47The number of faces of a triangular pyramid or tetrahedron is _____.@4@6@5@1024@1000

48 Three cubes each with 2 cm edge are placed side by side to form a cuboid. Its length will be:@4 cm@2cm@6 cm@None of these@@0010

49The number of triangular faces of a triangular prism is _____.@ 2@1@4@None of these@@0100

50Which of the following is the number of vertices of sphere?@0@1@2@4@@ 0

51. There are _____.. edges in a cube.@ 8@12@4@None of these@@12

52A die is cut horizontally. What is the cross-section obtained?@ A triangle@A rectangle@A square@A cube@@A square
53The number of faces of a cube is _____.@ 4@6@8@None of these@0100
54 If two cubes of dimensions 2 cm by 2 cm are placed side by side, what would the dimensions of resulting cuboid be?@ 4, 2, 2@2, 4, 2@2, 2, 4@Noun of these@1000
55The number of faces of a triangular prism is _____.@ 5@6@4@None of these@0010
56. There are _____ faces in a cube.@ 8@4@6@None of these@0010
57Cuboid is an example of@ Both@2-D shape@3-D shape@None of these@@3-D shape
58The vertical cut of a brick will show the cross section is@ circle@pentagon@rectangle@hexagon@@rectangle
59 There are _____. vertices in a cube.@8@6@4@None of these@1000
60The number of edges of a rectangular pyramid is _____.@ 21@8@7@None of these@0100
61.The number of edges of a triangular pyramid is _____.@ 8@5@6@None of these@0010
62Three dimensional shapes have :@ length, breadth, height@length, breadth@breadth height@None of these@1000
63A cuboid has _____ rectangular faces.@ 8@2@6@4@0010
64Identify the correct statement from the following.@A triangle has 3 sides and 4 vertices.@1000
cylinder has 3 faces@All sides of the rectangle are equal.@A cuboid has 4 flat faces and 12 straight edges.@@A cylinder has 3 faces.
65The number of faces of a square pyramid is _____.@ 4@7@5@None of these@0010
66Rakesh has 10 one rupee coins of similar kind. He puts them exactly one on the other. What shape will he get finally?@ Circle@Cylinder@Cube@Cone@0100
67The number of faces of a cylinder is _____.@ 2@1@3@None of these@0100

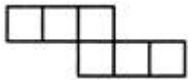
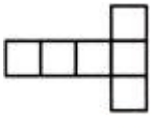
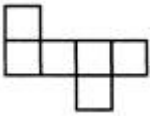
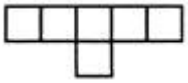
69. The given figure shows a party cap. What is the cross - section obtained when a horizontal cut parallel to base, is given to the cap?

@ Circle@Square@Triangle@Rectangle@1000

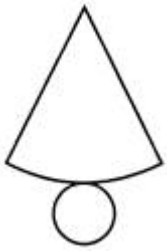
70. The given figure shows a Rubik's cube. It is a source of famous puzzle in the form of a cube with 9 squares on each side, and each side of a different colour. What is the cross - section obtained when a vertical cut is given to the Rubik's cube?

@Circle@Square@Triangle@Rectangle@0100

71.Which of the following nets cannot be used to form a cube?

@  @  @  @  @0001

72.Which three - dimensional figure can be obtained from the given net?



@Cone@Cylinder@Triangular prism@Triangular pyramid@1000

73. Which row is matched incorrectly?

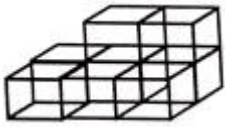
Row	Three-Dimensional Figure	Horizontal / Vertical Cut	Cross-section Obtained
I		Horizontal	Circle
II		Vertical cut parallel to front face	Rectangle
III	 (Sphere)	Vertical	Circle
IV		Vertical cut parallel to Rectangle front face	Rectangle

@row I@ row II@row III@ row IV@0001

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?

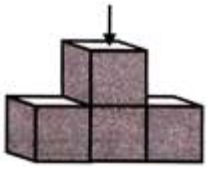
@Rectangle@Circle@Square@Triangle**@**0100

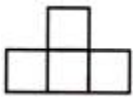
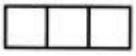
75. The number of cubes in figure below is:



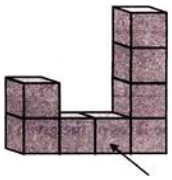
@7@8@ 9@ 10**@**0100

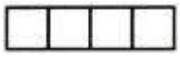
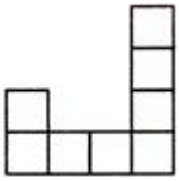
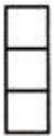
76. What is the view of the solid shown in the given figure as seen from the direction indicated by the arrow?



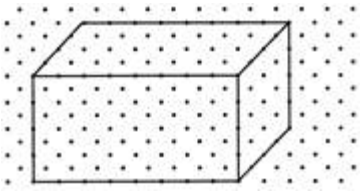
@  @  @  @  **@**0010

77. What is the view of the solid shown in the given figure as seen from the direction indicated by the arrow?



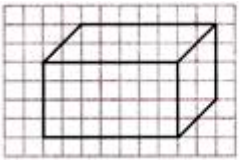
@  @  @  @  @0100

78. The given figure shows a cuboid drawn on the isometric dot sheet. How many cubes, each having a side of length 4 units, can be formed by cutting the given cuboid?



@1@2@3@ 4@0100

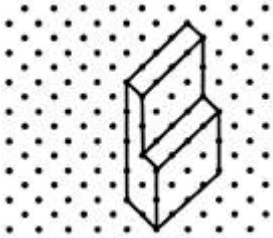
79. The given figure shows the oblique sketch of a cuboid that has a width of 5 units. What is the sum of the areas of the faces of the given cuboid?



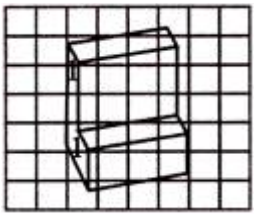
(width not to scale)

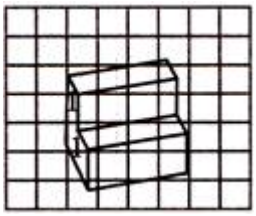
@83 square units@ 166 square units@225 square units@332 square units@0100

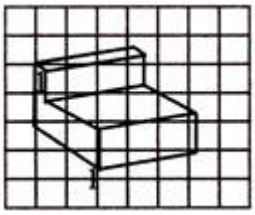
80. The given figure shows an isometric sketch of a three -dimensional figure.

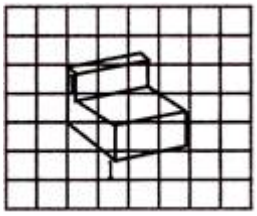


Which oblique sketch correctly represents the given figure?

@ 

@ 

@ 

@  @0100

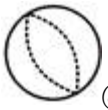
81. How many edges does the following figure have?

@5@8@10@11@0100

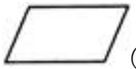
82. How many triangles can be seen in this figure?

@3@5@6@ 7@0100

83.Which of the following figures has six faces?

@  @  @  @  **@**0100

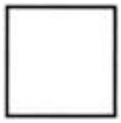
84.Which of the following is different from the other three?

@  @  @  @  **@**1000

85.Which of the following pair of shapes, when joined together (by placing them edge to edge) can from a rectangle?

@  @  @  @  **@**0010

86. A solid object when seen from one side, looks like this.



The same solid, when viewed from top,

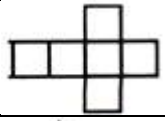
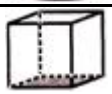
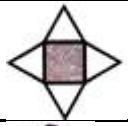
looks like this. Which of hese shapes could it be?

@  @  @  @  @0010

87.Identify the correct statement from the following.@ A triangle has 4 sides, three faces and 3 vertices.@ A cylinder has 3 faces.@ All sides of cuboid are equal.@ A cuboid has 4 flat faces and 12 straight edges.@0100

88.Ashok has 10 one rupee coins of similar kind. He puts them exactly one on the other. What shape will he get finally?@Circle@Cylinder@Cube@Cone@0100

89.Match the following.

	Column-I		Column-II
(i)		@	
(ii)		@	
(iii)		@	
(iv)		@	

@ (i) - @, (ii) - @, (iii) - @, (iv) - @@ (i) - @, (ii) - @, (iii) - @, (iv) - @
@ (i) - @, (ii) - @, (iii) - @, (iv) - @@ (i) - @, (ii) - @, (iii) - @, (iv) - @
@0100

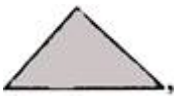
90.Identify the false statement from the following.@A cuboid has 3 pairs of opposite faces.@The number of vertices of a cube is 6.@All sides of a square are equal.@ A square pyramid is a three-dimensional figure.@0100

91.How many corners does the shape given have?

@8@9@ 12@11@0010

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

@0@3@2@1@0100

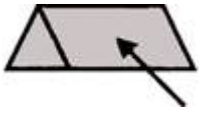
93. If front view of a solid is  ,
then what could be the shape of the solid?

@A die@A match box@A pyramid@A ball**@0010**

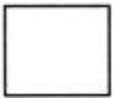
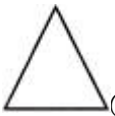
94.The front, side and top views of an object is as shown.

 Identify the possible object.

@  @  @  @  **@**1000



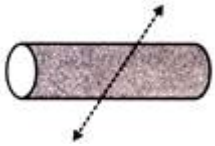
95. Observe the object given.
What is its side view indicated by the arrow?

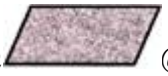
@  @  @  @  **@1000**

96.Identify the number of vertices of the given solid.

@8@6@12@10**@**1000

97.Identify the cross - section of the given solid at the dotted line.



@  @  @  @  **@0010**

98.A hollow pipe is viewed from the side indicated by the arrow. What is the shadow obtained?

@A ring@A circle@A cylinder@ An ellipse**@1000**

99.Identify the solid which has the following views.

@A cube@A cuboid@ A cone@A sphere@0100

100.The following arrangement of cubes is painted on all sides.

How many square faces are painted?

@16@9@18@12@0010