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## MATHS

## BOOKS - MTG IIT JEE FOUNDATION

## VISUALISING SOLID SHAPES

Illustration

1. Complete the following table:

2. The figure shows a solid and a partially completed net of the solid. Complete the net of the solid.

3. The figure shows a net and a partially completed solid of the net. Complete the solid.


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4. How many faces, edges and vertices does the solid have?


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5. Which 2-D figure would you get, when torch
directions, light will fall on a cone from
(a) Top? (b) Side?
6. Draw views of solid as seen from all the directions.


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## 7. A solid object when seen from one side,

## looks

like
this

The
same solid, when seen from top, looks like this

## Name

the object.
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8. The front, side and top views of an object is
the object.

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Solved Examples

1. How many faces, edges and vertices does the solid have?


## D Watch Video Solution

2. How many faces, edges and vertices does
the solid have?

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## 3. Which of the following solids has the

 greater number of faces?(D) Watch Video Solution
4. Draw the net of the given solid.


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## Ncert Section Exercise 141

1. Here is an incomplete net for making a cube.

Complete it in atleast two different ways.

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## 2. Match the nets with appropriate solids:

(a)

(i)

(b)

(ii)

(c)

(d)

(iv)


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Ncert Section Exercise 143

1. The dimensions of a cuboid are $5 \mathrm{~cm}, 3 \mathrm{~cm}$
and 2 cm . Draw three different isometric sketches of this cuboid.

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Ncert Section Exercise 144

1. Three cubes each with 2 cm edge are placed
side by side to form a cuboid. Sketch an
oblique or isometric sketch of this cuboid.

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2. A bulb is kept burning just right above the following solids. Name the shape of the shadows obtained in each case. Attempt to give a rough sketch of the shadow.


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1. 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.

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1. The figure shows a solid.


Which of the following is net of the solid?
A.

B.


Answer:

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## 2. The figure shows a solid.



Which of the following is a net of the solid?
A.

B.

## C.


D.


Answer:
( Watch Video Solution

## 3. How many faces does the solid have?


A. 7
B. 6
C. 8
D. 9

## Answer:

## - Watch Video Solution

4. How many corners does the following solid have?

A. 12
B. 16
C. 14
D. 18

## Answer:

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5. The figure shows a solid.


Which of the following is a net of the solid?
A.

c.


Answer:

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6. A cone, standing on its base, would appear in the top view as a
A. circle
B. triangle
C. rectangle
D. none of these

Answer:
(D) Watch Video Solution

## 7. A triangular prism has

A. 6 faces, 8 corners and 12 edges
B. 5 faces, 6 corners and 9 edges
C. 8 faces, 6 corners and 12 edges
D. 9 faces, 6 corners and 5 edges.

Answer:

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8. A figure which has 4 vertices, 6 edges, and 4
faces is a
A. cube
B. cuboid
C. triangular pyramid
D. triangle

Answer:

D Watch Video Solution

## 9. How many boxes can be fit in the shelf in the

## figure?


A. 4
B. 6
C. 5
D. 3

## Answer:

## - Watch Video Solution

10. A sheet of paper $15 \mathrm{~cm} \times 23 \mathrm{~cm}$ is rolled
along the 23 cm edge. The resulting shape will
be:
A. sphere
B. cone
C. cylinder
D. None of these

## Answer:

## D Watch Video Solution

11. How many cubes are used to make the solid shape given below?

A. 4
B. 5
C. 6
D. 8

Answer:

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12. Which solid shape will be formed from the given net?

A. Tetrahedron
B. Hexagonal prism
C. Square pyramid
D. Hexagonal pyramid

Answer:
13. Number of vertices, edges and faces respectively in the given figure are:

A. 10,15,8
B. 15,10,8

## C. 10,15,7

D. 10,12,8

## Answer:

## D Watch Video Solution

## Olympiad Hots Corner

1. How many vertices, edges and faces are
hidden in the given figure?

A. 3,1,1
B. 1,3,3
C. 3,3,3
D. $4,2,1$

Answer:

- Watch Video Solution


## 2. Which of the following can be the net of the

 given solid?
A.

B.

C.

D.

Answer:

D Watch Video Solution
3. Recognise the following net and name the solid formed.

A. Cone
B. Cylinder
C. Cube
D. Cuboid

## Answer:

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4. Which of the following is the net for a hexagonal prism?


## C.

D. None of these

Answer:

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