



# MATHS

## NCERT - NCERT Maths(Hinglish)

### VISUALISING SOLID SHAPES

#### Exercise 10.1

1. Draw the front view, side view and top view of the given objects.



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2. For each given solid, identify the top view, front view and side view.



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3. For each of the given solid, the three views are given. Identify for each solid the corresponding top, front and side views.



(i)



(ii)



(iii)




















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**4.** For each of the given solid, the two views are given. Match for each solid the corresponding top and front views. The first

one is done for you.

Object	Side view	Top view
(a)  A bottle	(i) 	(i) 
(b)  A weight	(ii) 	(ii) 
(c)  A flask	(iii) 	(iii) 
(d)  A cup on a saucer	(iv) 	(iv) 
(e)  Container	(v) 	(v) 

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1. Can a polyhedron have for its faces

(i) 3 triangles

(ii) 4 triangles

(iii) a square and four triangles?

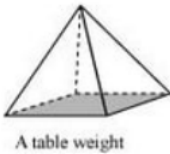


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2. Which are prisms among the following?

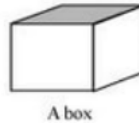


(i)



(iii)

(ii)



(iv)



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3. Is it possible to have a polyhedron with any given number of faces? (Hint: Think of a pyramid).



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4. Is a square prism same as a cube? Explain.



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5. (i) How are prisms and cylinders alike?

(ii) How are pyramids and cones alike?



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6. Using Euler's formula find the unknown.

Faces  $?$ ,  $5$ ,  $20$ ,

vertices  $6$ ,  $?$ ,  $12$

Edges  $12$ ,  $9$ ,  $?$



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7. Verify Euler's formula for these solids.



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8. Can a polyhedron have 10 faces, 20 edges and 15 vertices? Check using Euler's formula.

A. Yes

B. No

C. Cannot be determined

D. None of the above

**Answer: B**



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