



# MATHS

## NCERT - NCERT

## MATHEMATICS(ENGLISH)

## VISUALISING SOLID SHAPES

### Exercise 10 1

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



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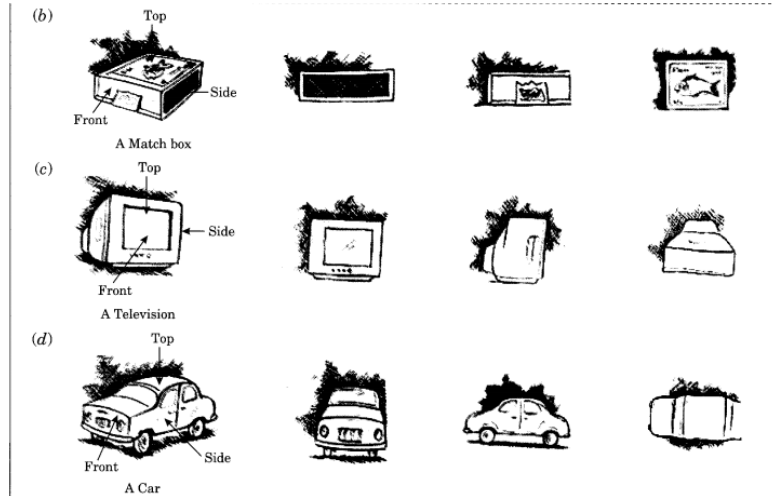
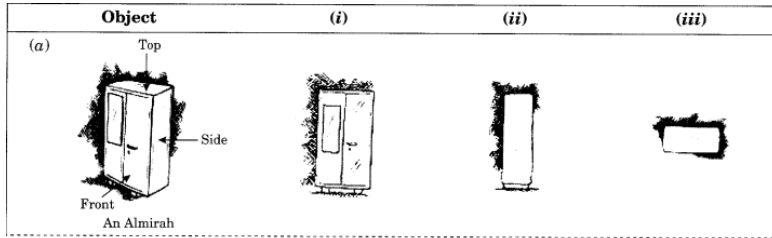
2. For each given solid, identify the top view, front view and side view.



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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.



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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)  Cup and Saucer	(iv) 	(iv) 
(e)  Container	(v) 	(v) 



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## Exercise 10 3

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?



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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  $6$ ,  $?$ ,  $12$  and 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?

A. Yes

B. No

C. Cannot be determined

D. None of the above

**Answer: B**



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