
















CHAPTER 15

VISUALIZING SOLID SHAPES

Question 1.

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) 

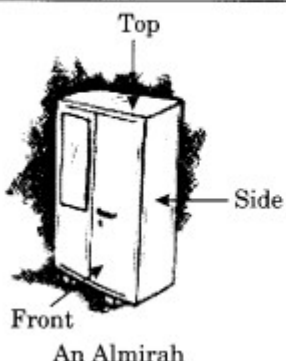



Solution:

- (a) A bottle → (iii) → (iv)
 (b) A weight → (i) → (v)
 (c) A flask → (iv) → (ii)

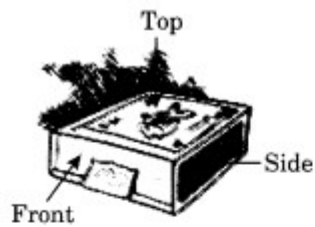
- (d) Cup and saucer → (v) → (iii)
 (e) Container → (ii) → (i)

Question 2.

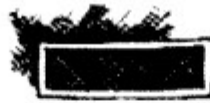
For each of the given solid, the three views are given. Identify for each solid the corresponding top, front and side views.

Object	(i)	(ii)	(iii)
<p>(a)</p>  <p>Top</p> <p>Side</p> <p>Front</p> <p>An Almirah</p>			

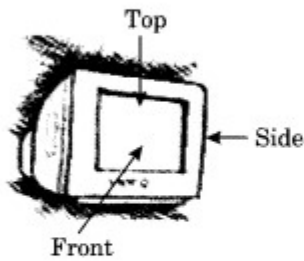
(b)



A Match box



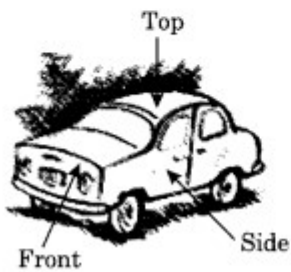
(c)



A Television



(d)



A Car



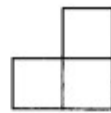
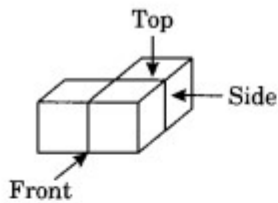
Solution:

- (a) An Almirah → (i) Front → (ii) Side → (iii) Top
(b) A Match box → (i) Side → (it) Front → (iii) Top
(c) A Television → (i) Front → (ii) Side → (iii) Top
(d) A Car → (i) Front → (ii) Side → (iii) Top

Question 3.

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

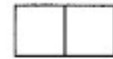
(a)



(i)

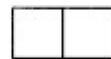
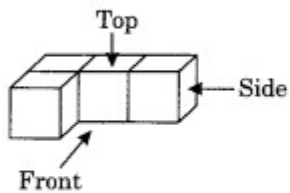


(ii)

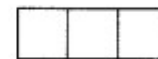


(iii)

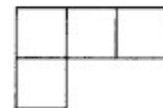
(b)



(i)

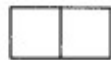
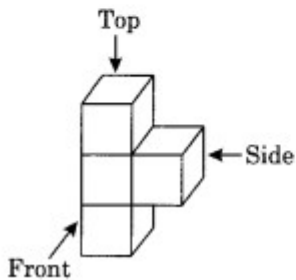


(ii)

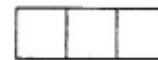


(iii)

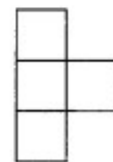
(c)



(i)

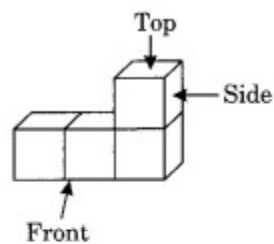


(ii)

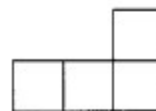


(iii)

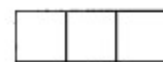
(d)



(i)

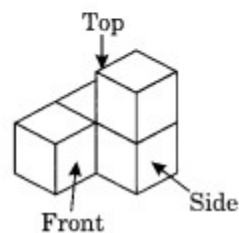


(ii)

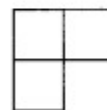


(iii)

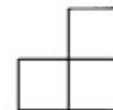
(e)



(i)



(ii)



(iii)

Solution:

(a) (i) Top → (ii) Front → (iii) Side

(b) (i) Side → (ii) Front → (iii) Top

(c) (i) Top → (ii) Side → (iii) Front

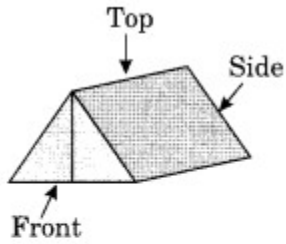
(d) (i) Side → (ii) Front → (iii) Top

(e) (i) Front → (ii) Top → (iii) Side

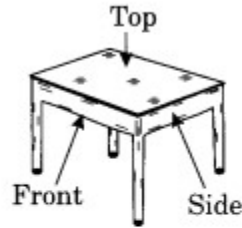
Question 4.

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

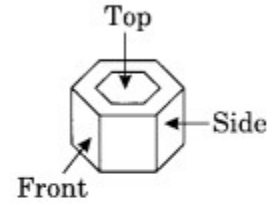
(a) A military tent



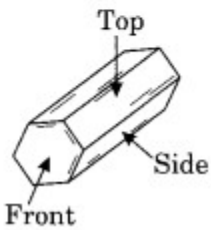
(b) A table



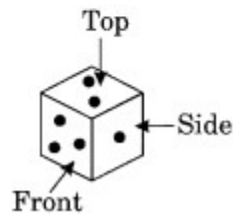
(c) A nut



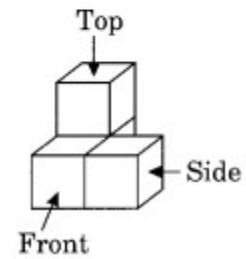
(d) A hexagonal block



(e) A dice

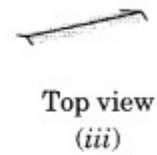
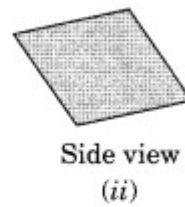
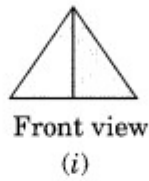
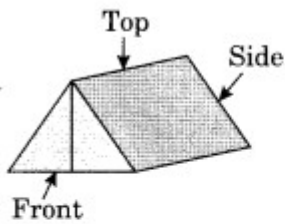


(f) A solid

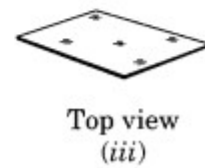
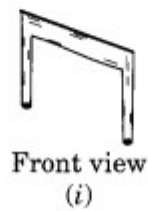
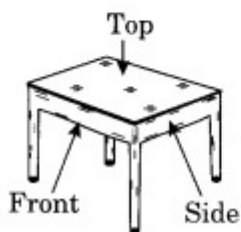


Solution:

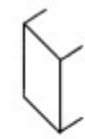
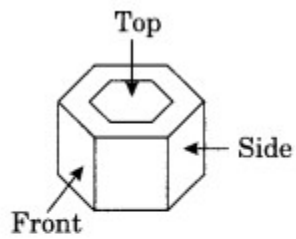
(a) A military tent



(b) A table



(c) A nut



Front
(i)

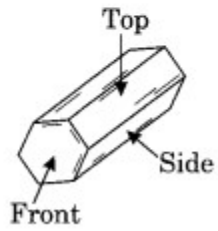


Side
(ii)



Top
(iii)

(d) A hexagonal block



Front
(i)

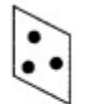
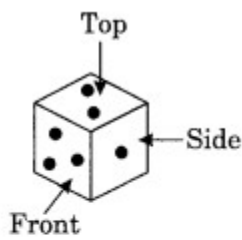


Side
(ii)



Top
(iii)

(e) A dice



Front
(i)

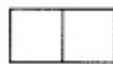
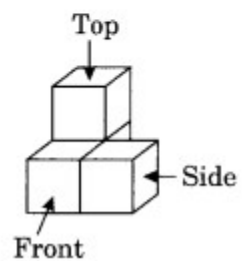


Side
(ii)



Top
(iii)

(f) A solid



Front
(i)


















Side
(ii)



Top
(iii)

Q1 : For each of the given solid, the two views are given. Match for each solid the corresponding top and front views.

	Object		Side view		Top view
(a)		(i)		(i)	
(b)		(ii)		(ii)	
(c)		(iii)		(iii)	
(d)		(iv)		(iv)	
(e)		(v)		(v)	

Answer :

The given solids, matched to their respective side view and top view, are as follows.

Object Side view Top view



(a)



(iii)



(iv)



(b)



(i)



(v)



(c)



(iv)



(ii)



(d)



(v)



(iii)



(e)

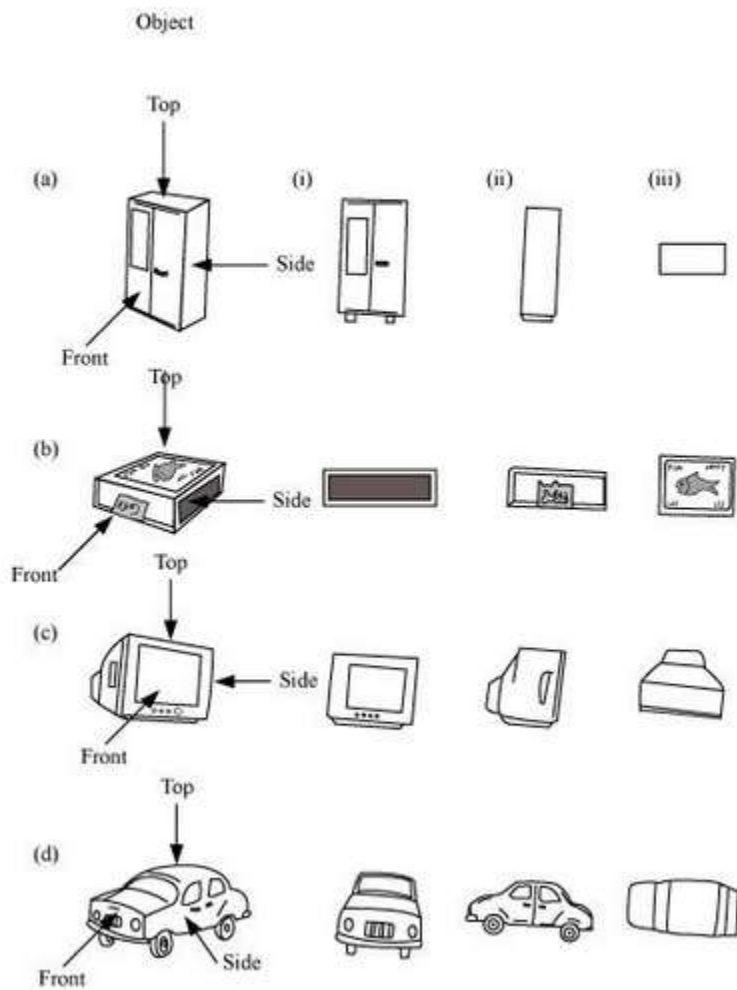


(ii)



(i)

Q2 : For each of the given solid, the three views are given. Identify for each solid the corresponding top, front and side views.



Answer :

(a)



Front



Side



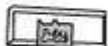
Top

(i) Front (ii) Side (iii) Top

(b)



Side



Front



Top

(i) Side (ii) Front (iii) Top

(c)



Front



Side



Top

(i) Front (ii) Side (iii) Top

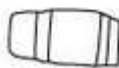
(d)



Front



Side

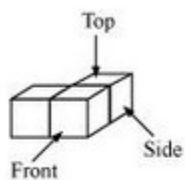


Top

(i) Front (ii) Side (iii) Top

Q3 : For each given solid, identify the top view, front view and side view.

(a)



(i)

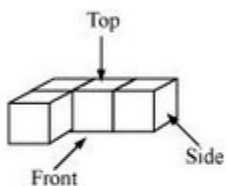


(ii)

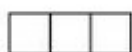


(iii)

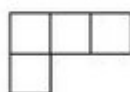
(b)



(i)

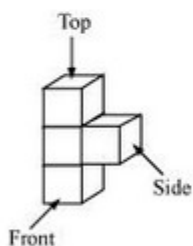


(ii)



(iii)

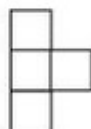
(c)



(i)

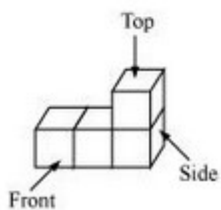


(ii)

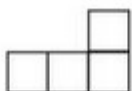


(iii)

(d)



(i)

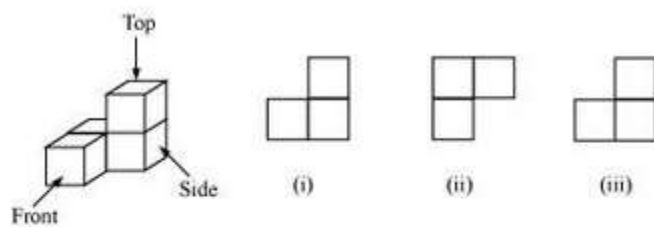


(ii)



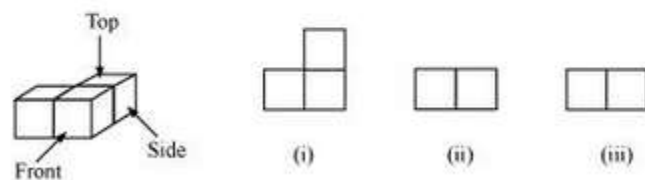
(iii)

(e)



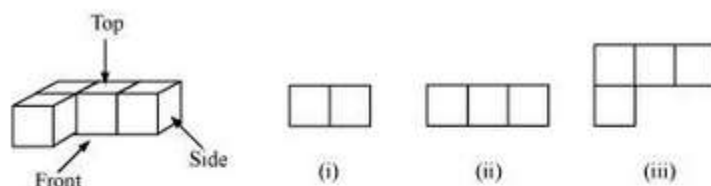
Answer :

(a)



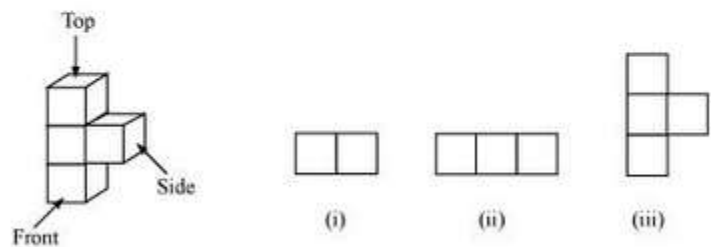
(i) Top (ii) Front/Side (iii) Side/Front

(b)



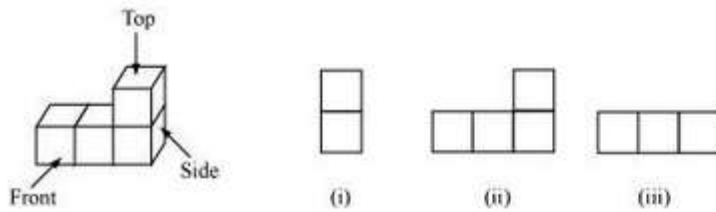
(i) Side (ii) Front (iii) Top

(c)



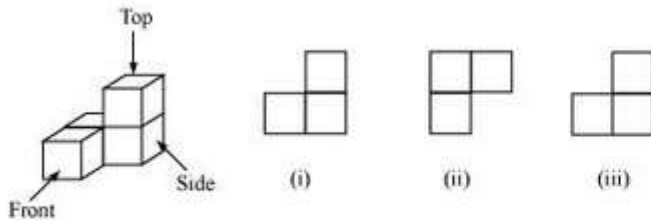
(i) Top (ii) Side (iii) Front

(d)



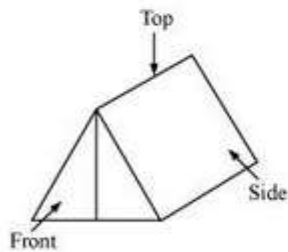
(i) Side (ii) Front (iii) Top

(e)

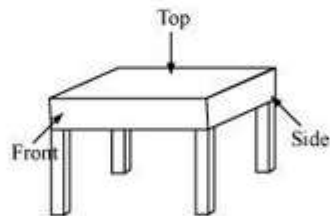


(i) Front/Side (ii) Top (iii) Side/Front

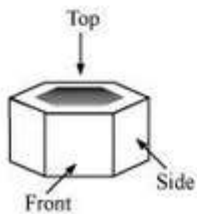
Q4 : Draw the front view, side view and top view of the given objects.



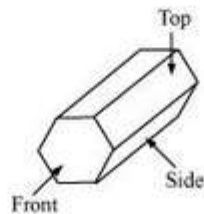
(a) A military tent



(b) A table



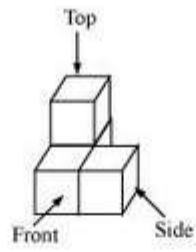
(c) A nut



(d) A hexagonal block



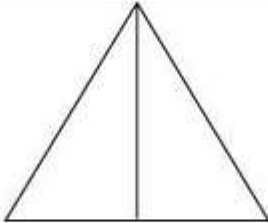
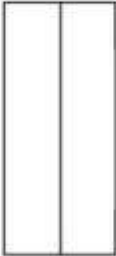

(e) A dice






(f) A solid

Answer :


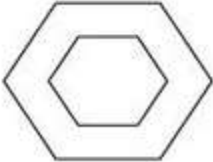

(a)

A military tent	
Front View	
Top View	
Side View	

(b)

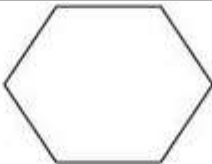


A table	
Front View	
Top View	
Side View	

(c)

A nut	
Front View	
Top View	
Side View	

(c)

(d)

A hexagonal block	
Front View	
Top View	
Side View	

(e)

A dice	
Front View	