DICE

Dice has a shape of cube or cuboid. It have six faces but at a time only three faces are visible when as three faces are hidden.



(i) ABCD — Front surface (visible) Opposite (ii) EFGH — Back surface (hidden)

(iii) ADHE — Top surface (visible) (iv) BCGF — bottom surface (hidden) Opposite

(v) DCGH - Right surface (visible) (vi) ABFE – Left surface (hidden)

There are 4 cases to ask a question in any exam.

Case I

when only one position is given.

Case II

When only two position are given

Case III

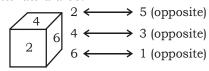
When more than two position are given.

CASE I

When only one position is Given When only one position is given in a question then we will check our dice is standard or general.

Standard Dice

If every opposite surfaces sum is equal to 7 then the dice is called standard dice.



General Dice:

If any two adjacent surfaces have

sum 7 then the dice is called general dice.

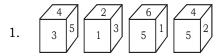


3 + 4 = 7 it is a general dice.

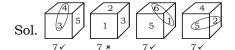
- In general dice visible no are opposite to hidden numbers $3/4/5/\longleftrightarrow 1/6/2$
- How to identify whether it is standard or General

If sum of any two adjacent surfaces is 7 (7 visible) then the dice is general or if sum of 7 are not seen then the dice is standard.

Examples



Which of the following is a standard dice.



Opposite to 5 = ?



sol:- $7 \times$

\ It is a standard dice →2

(Ans.)

3.

opposite to 6 = ?

Sol. There is no two adjacent surfaces have sum 7

\ it is a standard dice.

Opposite to 6 is 1 Ans.





opposite to 4 = ?

Sol.

It is a general dice $\rightarrow 1/6/2$ Ans.

5. opposite to 6 = ?

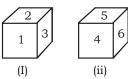
General Sol.

 $3/4/5 \longleftrightarrow 1/2/6$ opposite to 6 is 3 / 4 / 5

CASE -II.

When only two position are given

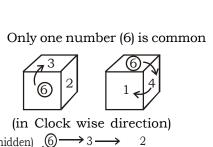
(a) No common

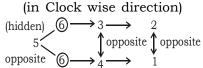


- If there is nothing common in figure (i) and figure (ii) then we will check dice is standard or general.
 - (b) Only one common







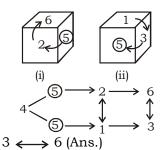


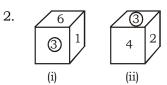
1. (I)

Opposite to 3 = ?

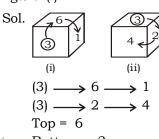
Sol.

\

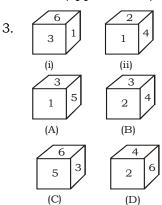




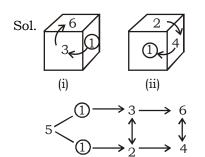
What is the no at bottom surface of figure (i)



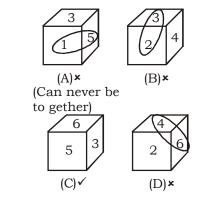
Bottom = 2Ans. (opposite to 6)



Which option is correct?

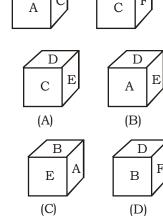


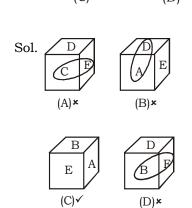
Note: Two opposite number can never be seen at a time.

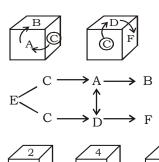


4.

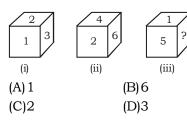
В

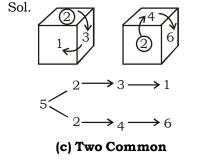


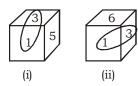




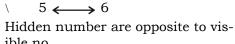
5.





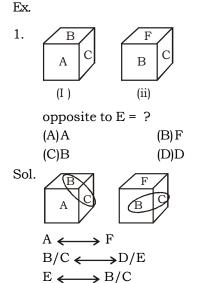


Remaining number are opposite to each other.



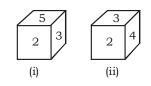
ible no.

$$1/3 \longleftrightarrow 2/4.$$



Option C is correct.

2.



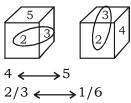
(A)







Sol.



Note:- Two opposite no. can never be seen together or can never be hidden together.

485 can never be seen (option A) and can never be hidden (B,C) Since option D is correct,

CASE III

More than two positions are Given

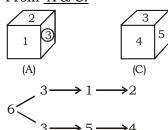




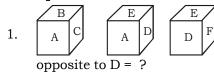


Solve the Question by taking any two position of only one common.





Examples



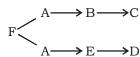


3.





From (i) & (ii)



\ Opposite to D is C

(ii)







opposite to \$ ---?

Sol. From (i) & (iii)







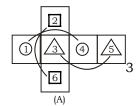


Ans.

CASE IV

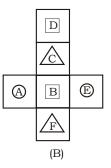
Opening of a Dice,

Each alternate surface are opposite to each other.



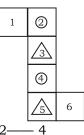
-5

-6



A----- E — F

- B

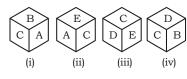


- 5

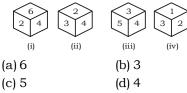
1----- 6

EXERCISE-1

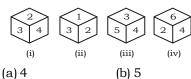
Four forms of a dice are shown below. In this dice which word will be on the surface opposite to the word D?



- (a) D (b) A (c) B (d) C
- If a dice thrown four times and different forms of dice are shown below. In this dice which digit will be on the surface opposite to the digit 2?

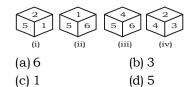


1,2,3,4,5 and 6 have written on surface of dice. Four forms of dice shown below. In this dice which digit will be on the surface opposite to the digit 3?

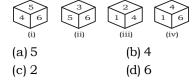


(c)6

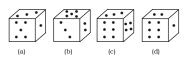
Four forms of a dice are shown below in this dice which digit will be on the surface opposite to the digit 4?



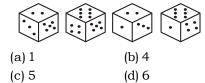
Four forms of a dice are shown 5. below in this dice which digit will be on the surface opposite to the digit 3?



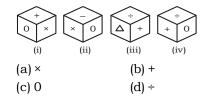
Four forms of a dice are shown below. In this dice is addition of it's two opposite surface is 7. Which will be the right form of this dice in given forms?



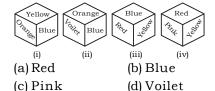
Four forms of a dice are shown below. In this dice which digit will be on the surface opposite to the digit 2?



Four forms of a dice are shown below. In this dice which figure will be on the surface opposite to the figure D?

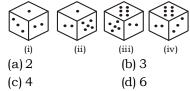


Four forms of a dice are shown below. In this dice which colour will be on the surface opposite to the yellow colour?

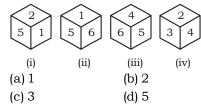


10. Four forms of a dice are shown below. In this dice which digit will be on the surface opposite to the digit 1?

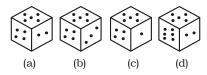
(c) Pink



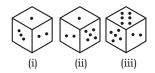
11. Four forms of a dice are shown below. In this dice which digit will be on the surface opposite to the digit 4?



12. If in a dice it's two opposite surface addition is 7. Which is the right form of this dice shown below?

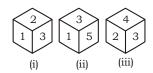


13. Three forms of a dice are shown below. In this dice which digit will on the surface opposite to the digit 1?

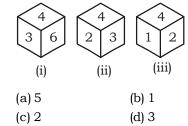




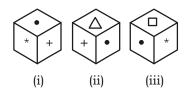
14. Three forms of a dice are shown below. In this side which digit will be on the surface opposite to the digit 3?



- (b) 6 (a) 1 (c)4(d) 5
- 15. Three forms of a dice are shown below. In this dice which digit will be on the surface opposite to the digit 4?



Directions(16-18)



- 16. Which figure will be opposite of (•)?
 - (a) +(b) * (c) D (d) 5
- 17. Which figure will be opposite of (+)?
 - (a)* (b) • (c) W (d) D
- 18. In given from (iii) which will be opposite of (W)?
 - (a)* (b) D

ANSWER KEYS

(Exercise-1)

1. (b) 3. (c) 5. (b) 2. (c) 4. (c) 6. (a)	7. (d) 9. (d) 8. (c) 10. (d)	11. (a) 13. (d) 12. (c) 14. (b)	15. (a) 17. (c) 18. (d)
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SOLUTION

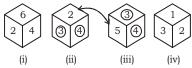
(iii)

(iv)

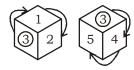
(c) •

(d) +

- 1.(b) In figure (ii) and (iii) C and E are common so A is opposite of
- 2. (c)



3.(c) From figure (ii) and (iii)

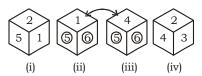


1 will be opposite of 4

2 will be opposite of 5

3 will be opposite of 6 missing number

4. (c)



5. (b)



cent surface is not equal to 7 in a standard dice. (c)

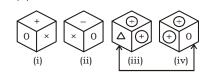
(a)

(d)

6.

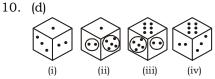
7.

8.

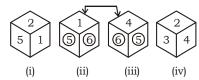


Q because addition of two adja-

(d)

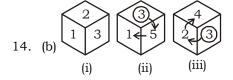


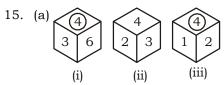
11. (a)



12. (c)

13. (d)





From (i) (ii) and (iii) 3 will be opposite of 1 6 will be opposite of 2 4 will be opposite of 5

Solution (16-18)

16. (d)

17. (c)

18. (d)

EXERCISE-II

Which figure we can make the 1. given figure



F will be opposite of B E will be opposite of C

A will be opposite of D

Answer figure











Question figure



C will be opposite of F B will be opposite of D A will be opposite of E

Answer figure









(a) only a

(b) only b

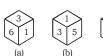
(c) only a and c

(d) only b and d

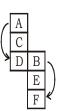
Question figure

2 will be opposite of 4 1 will be opposite of 6 5 will be opposite of 3

Answer figure



4. In a given figure of open dice. Which dice we can make?

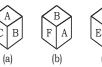


A will be opposite of D

B will be opposite of F

C will be opposite of E

Answer figure





5. Question figure



Answer figure

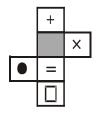








- (a) Only (a) and (c)
- (b) Only (b) and (d)
- (c) Only (c)
- (d) Only (a) and (d)
- 6. Question figure



Answer figure









- (a) Only (a)
- (b) Only (a) and (d)
- (c) Only (b) and (c)
- (d) Only (a) and (d)
- Questions figure



Answer Figure









- (a) Only (a) and (b)
- (b) Only (d)
- (c) Only (b) and (d)
- (d) Only (c) and (d)
- Which is the opposite surface of 1.



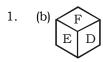
- (a) 1
- (c)4
- (b) 3 (d) 5

ANSWER KEYS

(Exercise-II)

- (b) (d)
- (d) (a)
- (c) (a)
- (d)

SOLUTION



















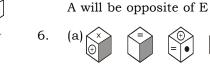












5.





C will be opposite of D B will be opposite of F





- (+) will be opposite of =
- will be opposite of
- will be opposite of ×

7.







- × will be opposite of
- will be opposite of
- will be opposite of \bigcup

8. (c)

