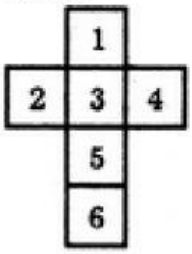
PRACTICE TEST 47

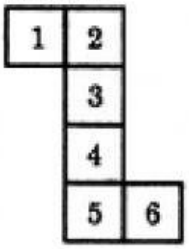
Construction of Boxes:
The details of the cube formed when a sheet is folded to form a box:

Form I



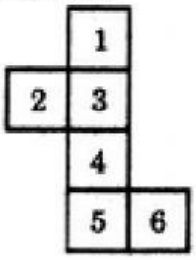
In this case:
1 lies opposite 5;
2 lies opposite 4;
3 lies opposite 6.

Form II



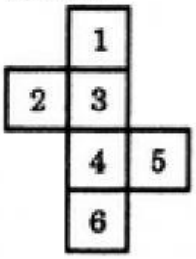
In this case:
1 lies opposite 6;
2 lies opposite 4;
3 lies opposite 5.

Form III



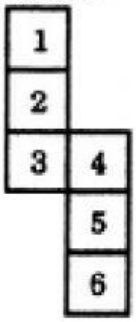
In this case:
1 lies opposite 4;
2 lies opposite 6;
3 lies opposite 5.

Form IV



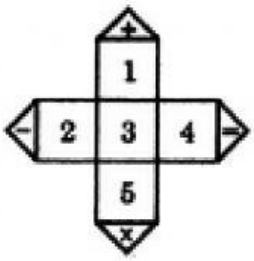
In this case:
1 lies opposite 4;
2 lies opposite 5;
3 lies opposite 6.

Form V



In this case:
1 lies opposite 3;
2 lies opposite 5;
4 lies opposite 6.

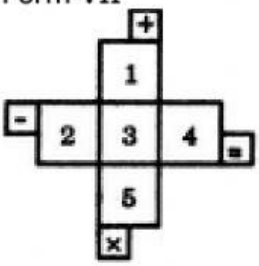
Form VI



In this case:

will be the one of the faces of the cube and it lies opposite 3;
2 lies opposite 4;
1 lies opposite 5.

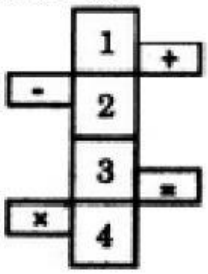
Form VII

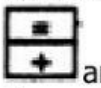


In this case:

will be the one of the faces of the cube and it lies opposite 3;
2 lies opposite 4;
1 lies opposite 5.

Form VIII



In this case:

and

are two faces of the cube that lie opposite to each other.
1 lies opposite 3;
2 lies opposite 4;

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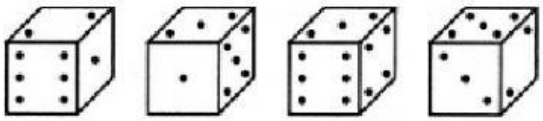
1. If the total number of dots on opposite faces of a cubical block is always 7, find the figure which is correct.



(1) (2) (3) (4)

A. Fig.1
B. Fig.2
C. Fig.3
D. Fig.4

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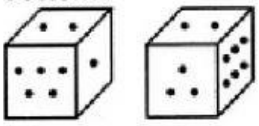
2. Two positions of a block are given below. When 1 is at the top, which number will be at the bottom?



(i) (ii)

A. 2
B. 3
C. 4
D. 6

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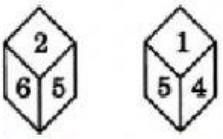
3. What number is opposite 3 in the figure shown below? The given two positions are of the same dice of which each surface bears a number among 1, 2, 3, 4, 5 and 6.

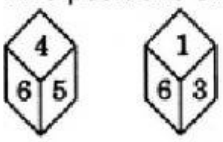


(i) (ii)

A. 2
B. 4
C. 5
D. 6

---

4. Two positions of a dice are shown below. Identify the number at the bottom when the top is '3'?



(i) (ii)

A. 2
B. 4
C. 5
D. 6

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5. Three different positions X, Y and Z of a dice are shown in the figures given below. Which number lies at the bottom face in position X?

(X) (Y) (Z)

A. 2
B. 3
C. 6
D. Cannot be determined

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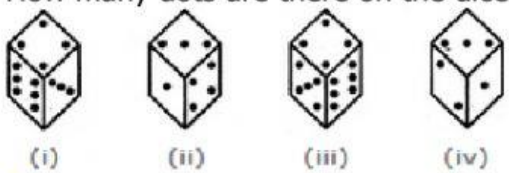
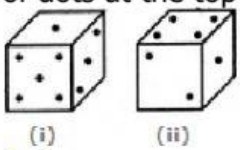
6. How many dots are there on the dice face opposite the one with three dots?



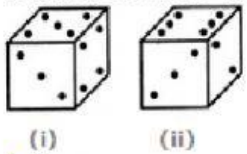
A.2 B.4
C.5 D.6

7. Two positions of a dice are shown below. When there are two dots at the bottom, the number of dots at the top will be



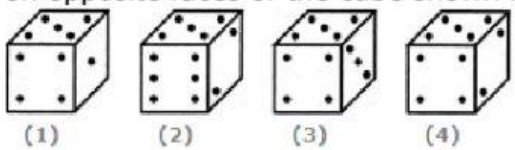
A.3 B.5
C.6 D.Cannot be determined

8. Two positions of a dice are shown below. If the face with 1 dot is at the bottom, then the number of dots on the top is



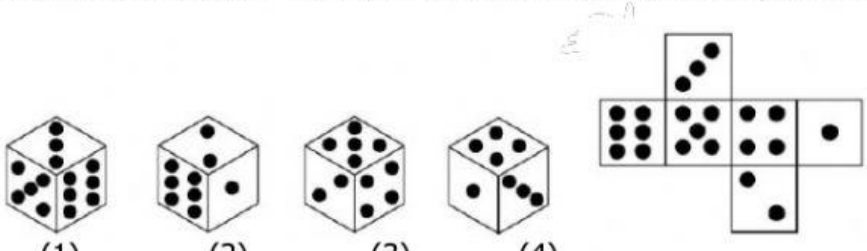
A.2 B.3
C.4 D.5

9. Amongst the following figures, find the correct one, if it is known that the total number of dots on opposite faces of the cube shown is always 7.



A.Fig.1 B.Fig.2
C.Fig.3 D.Fig.4

10. Which cube CANNOT be made from the card of the side picture?



A.Fig.1 B.Fig.2
C.Fig.3 D.Fig.4