



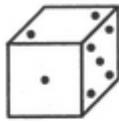
MENTAL AGILITY

TOPIC – DICE AND CUBE

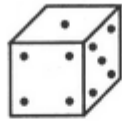
LEVEL – 2

SERIAL NO. 3

Q1 Observe the dots on a dice (one to six dots) in the following figures. How many dots are contained on the face opposite to that containing four dots?



(i)



(ii)

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

Q2 Three different positions of a dice are shown below. How many dots lie opposite 2 dots?



(i)



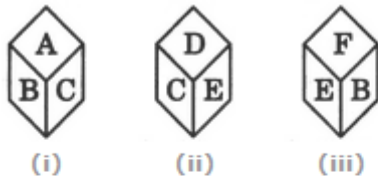
(ii)



(iii)

- A. 1
- B. 3
- C. 5
- D. 6

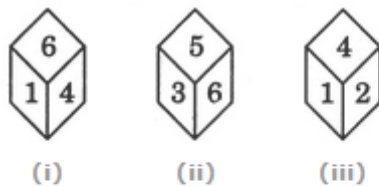
Q3 The six faces of a dice have been marked with alphabets A, B, C, D, E and F respectively. This dice is rolled down three times. The three positions are shown as:



Find the alphabet opposite A.

- A. C
- B. D
- C. E
- D. F

Q4. Three positions of a dice are given. Based on them find out which number is found opposite the number 2 in the given cube.



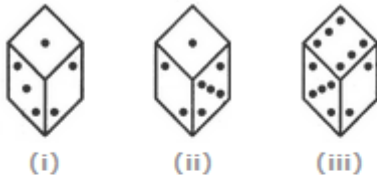
- A. 6
- B. 5
- C. 3
- D. 1

Q5. A dice is numbered from 1 to 6 in different ways. If 1 is adjacent to 2, 3 and 5, then which of the following statements is necessarily true?

- A. 4 is adjacent to 6
- B. 2 is adjacent to 5
- C. 1 is adjacent to 6

D. 1 is adjacent to 4

Q6 Below are depicted the three different positions of a dice. Find the number of dots on the face opposite to the face with one dot.



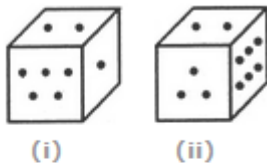
A. 2

B. 3

C. 4

D. 6

Q7 Two positions of a block are given below. When 1 is at the top, which number will be at the bottom?



A. 2

B. 3

C. 4

D. 6

Q8 A dice is numbered from 1 to 6 in different ways. If 1 is opposite to 5 and 2 is opposite to 3, then

A. 4 is adjacent to 3 and 6

B. 2 is adjacent to 4 and 6

C. 4 is adjacent to 5 and 6

D. 6 is adjacent to 3 and 4

Q9 A cube painted yellow on all its faces is then cut into 27 smaller cubes of identical sizes. How many cubes are painted on one face only?

**Q10** A cube is coloured red on all faces. It is cut into 216 smaller cubes of equal size. How many cubes have two faces coloured?