

Cubes & cuboid test

Directions for questions (1-3): The following questions are based on the information given below:

All the faces of cubes are painted with red color. The cubes is cut into 64 equal small cubes.

Q1. How many small cubes have no faces coloured?

- (a) 0 (b) 8 (c) 16 (d) 24

Q2. How many small cubes are there whose two adjacent faces are colored red ?

- (a) 0 (b) 8 (c) 16 (d) 24

Q3. How many small cubes have only one face colored?

- (a) 4 (b) 8 (c) 16 (d) 24

Directions for questions (4-5): All the six faces of a cube of a cube are coloured with six different colours - black, brown, green, red, white and blue.

Red face is opposite to the black face.

Green face is between red and black faces.

Blue face is adjacent to white face.

Brown face is adjacent to blue face.

Red face is in the bottom.

Q4. The upper face is _____

- (a) White (b) Black (c) Brown (d) None of these

Q5. The face opposite to brown is _____

- (a) Blue (b) White (c) Green (d) Red

Q6. What is the least number of cuts required to cut a cube into 24 identical pieces?

- (a) 2 (b) 4 (c) 6 (d) 8

Q7. 64 smaller but identical cubes are placed on a table to form a large. How many more such smaller cubes are required to enclose this large cube placed on this table completely?

- (a) 100 (b) 116 (c) 125 (d) 132

Directiond for questions (8-10): The following questions are based on the information given below:

1. A cuboid shaped wooden block has 6 cm length, 4 cm breadth and 1 cm height.
2. Two faces measuring 4 cm x 1 cm are coloured in black.

3. Two faces measuring 6 cm x 1 cm are coloured in red.
4. Two faces measuring 6 cm x 4 cm are coloured in green.
5. The block is divided into 6 equal cubes of side 1 cm (from 6 cm side), 4 equal cubes of side 1 cm (from 4 cm side).

Q8. How many cubes having red, green and black colours on at least one side of the cube will be formed ?

- (a) 16 (b) 12 (c) 10 (d) 4

Q9. How many small cubes will be formed ?

- (a) 6 (b) 12 (c) 16 (d) 24

Q10. How many cubes will have 4 coloured sides and two non-coloured sides ?

- (a) 8 (b) 4 (c) 16 (d) 10

Answer key

1	B	3	D	5	B	7	B	9	D
2	B	4	B	6	C	8	D	10	B

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