



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &

Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)

PROBLEMS ON CUBES



1. 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

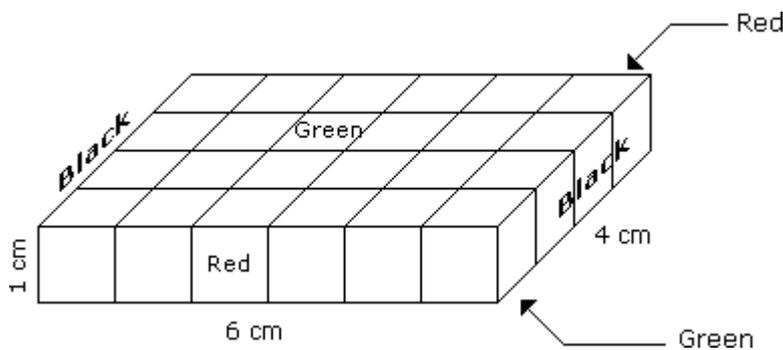
Answer: Option (d)

2. How many small cubes will be formed ?

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

Answer: Option (d)

Explanation:



Number of small cubes = $l \times b \times h = 6 \times 4 \times 1 = 24$

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

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

Answer : (b)

4. How many cubes will have green colour on two sides and rest of the four sides having no colour ?

- (a) 12
- (b) 10
- (c) 8
- (d) 4

Answer : (c)

5. How many cubes will remain if the cubes having black and green coloured are removed ?

- (a) 4
- (b) 8
- (c) 12
- (d) 16



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6. How many small cubes will have only two faces coloured ?

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

Answer : (c)

7. How many small cubes will have only one face coloured ?

- (a) 10
- (b) 12
- (c) 14
- (d) 18

Answer : (a)

8. How many small cubes will have only one face coloured ?

- (a) 12
- (b) 28
- (c) 22
- (d) 16

Answer : (c)

9. How many small cubes will have only one face coloured ?

- (a) 12
- (b) 28
- (c) 22
- (d) 16

Answer : (a)

10. How many small cubes are there whose three faces are coloured ?

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

Answer : (b)

11. How many small cubes are there whose 3 faces are coloured ?

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

Answer : (b)

12.

How many small cubes are there whose at the most two faces are coloured ?

- (a) 48
- (b) 56
- (c) 28
- (d) 24

Answer : (b)



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DATA SUFFICIENCY

1. **Question:** In which year was Rahul born ?

Statements:

- I. Rahul at present is 25 years younger to his mother.
- II. Rahul's brother, who was born in 1964, is 35 years younger to his mother.

- (A) I alone is sufficient while II alone is not sufficient
- (B) II alone is sufficient while I alone is not sufficient
- (C) Either I or II is sufficient
- (D) Neither I nor II is sufficient
- (E) Both I and II are sufficient

Answer : (E)

2. **Question:** How many children does M have ?

Statements:

- I. H is the only daughter of X who is wife of M.
- II. K and J are brothers of M.

- (A) I alone is sufficient while II alone is not sufficient
- (B) II alone is sufficient while I alone is not sufficient
- (C) Either I or II is sufficient
- (D) Neither I nor II is sufficient
- (E) Both I and II are sufficient

Answer : (D)

3. **Question:** The last Sunday of March, 2006 fell on which date ?

Statements:

- I. The first Sunday of that month fell on 5th.
- II. The last day of that month was Friday.

- (a) I alone is sufficient while II alone is not sufficient
- (b) II alone is sufficient while I alone is not sufficient
- (c) Either I or II is sufficient
- (d) Neither I nor II is sufficient
- (e) Both I and II are sufficient

Answer : (c)

4. **Question:** Who among P, Q, T, V and M is exactly in the middle when they are arranged in ascending order of their heights ?

Statements:

- I. V is taller than Q but shorter than M.
- II. T is taller than Q and M but shorter than P.

- (a) I alone is sufficient while II alone is not sufficient
- (b) II alone is sufficient while I alone is not sufficient
- (c) Either I or II is sufficient
- (d) Neither I nor II is sufficient
- (e) Both I and II are sufficient

Answer : (e)

5. **Question:** What is the numerical code for 'water' in a certain code ?

Statements:



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- I. The code for 'give me water' is '719'.
- II. The code for 'you can bring water for me' is written as '574186'.
 - (a) I alone is sufficient while II alone is not sufficient
 - (b) II alone is sufficient while I alone is not sufficient
 - (c) Either I or II is sufficient
 - (d) Neither I nor II is sufficient
 - (e) Both I and II are sufficientAnswer : (d)

6. Question: What is Suman's rank from the top in a class of forty students ?

Statements:

- I. Suman is 3 ranks below Deepak from the top.
- II. Deepak's rank from the bottom is 23.
- III. Suman is 3 ranks above Deepak from the bottom.
 - (a) Any two of the three
 - (b) Only I and II
 - (c) Only II and III
 - (d) All I, II and III
 - (e) Only II and either I or III

Answer : (e)

7. Question: How is 'DATE' written in the code language ?

Statements:

- I. DEAR is written as \$#@? in that code.
- II. TREAT is written as %?#@% in that code.
- III. TEAR is written as %#@? in that code,
 - (a) Only I and II
 - (b) Only II and III
 - (c) All I, II and III
 - (d) Only I and either II or III
 - (e) None of these

Answer : (d)

8. Question: In which year was Sanjay born ?

Statements:

- I. Sanjay is six years older than Gopal.
- II. Gopal's brother was born in 1982.
- III. Sanjay's brother is two years younger than Gopal's brother who was eight years younger than Gopal.
 - (a) Only I and II
 - (b) Only II and III
 - (c) Only I and III
 - (d) All I, II and III
 - (e) None of these



Answer : (d)

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9. Question: Who among Siddhartha, Nikunj, Vipul and Mukul is the youngest?

Statements:

- I. Vipul is younger than Mukul but older than Siddhartha and Nikunj.
- II. Mukul is the oldest.
- III. Siddhartha is older than Nikunj.

- (a) Only I
- (b) Only I and II
- (c) Only II and III
- (d) Only I and III
- (e) None of these

Answer : (d)