

Week1_OLT3(LR)_CSE_Immersion_2025

Directions (Q1 to Q2): A has two sons. E is the daughter of G and B is the mother of C. F, the brother of E is the son of C who is the son of A. A is grandfather of J who is not a sibling of E. B has a child named D.

Q1. What is the relationship between D and J?

- A) D is father of J B) D is uncle of J C) J is son of D
 D) Cannot be determined E) None of these

[Level-2; Accenture, Wipro, Infosys]

Answer: D

Explanation: A has two sons, but it is not mentioned that A has only 2 sons. So A and B can have daughters also Also it is not known that D is son of A or daughter of A, so J can be child of D or D can be uncle/aunt of J.

Q2. What is the ratio of males to females in the family?

- A) 1 : 1 B) 1 : 3 C) 5 : 3
 D) 3 : 5 E) Cannot be determined

[Level-2; Accenture, Wipro, Infosys]

Answer: E

Explanation: J's and D's gender not known.

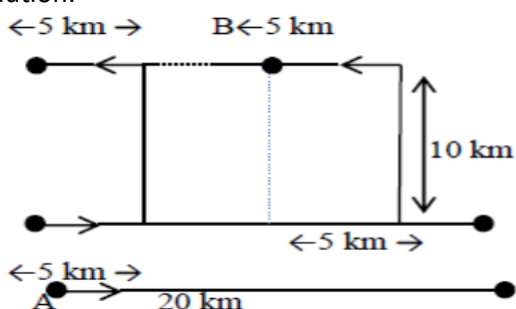
Q3. A and B are standing at a distance of 20 km from each other on a straight East-West road. A and B start walking simultaneously, eastwards and westwards respectively, and both cover a distance of 5 km. Then A turns to his left and walks 10 km. 'B' turns to his right and walks 10 km and at the same speed. Then both turn to their left and cover a distance of 5 km at the same speed. What will be the distance between them?

- (a) 10km (b) 5km (c) 20km (d) 25 km

[Level-1; Accenture, Wipro, Chetu]

Answer: A

Solution:



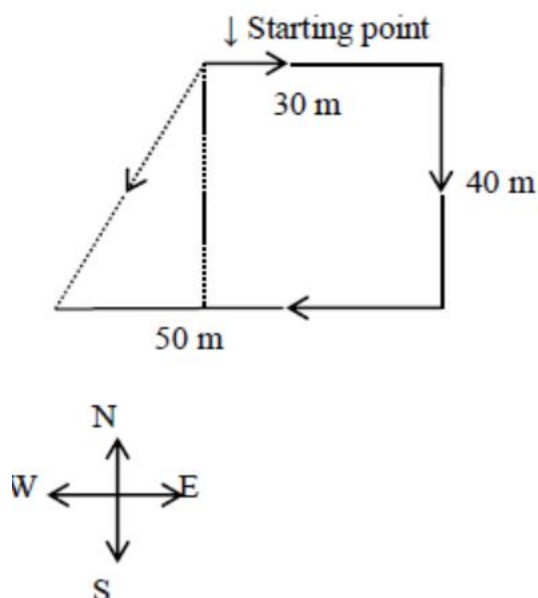
Q4. Alok walked 30 metres towards east and took a right turn and walked 40 metres. He again took a right turn and walked 50 metres. Towards which direction is he from his starting point?

- (a) South (b) West (c) South-West (d) South-East

[Level-1; Accenture, Wipro, Chetu]

Answer: C

Solution:



Q5. In a row P is 12th from left corner and Q is 15th from right corner then find the Minimum strength of the row if 5 persons are there in between P & Q.

- A) 15 B) 20 C) 18 D) 14

[Level-1; Accenture, Wipro]

Answer: B

Explanation: -

Minimum means we have to take an Overlapping Case.

Total number of persons = $(R1+R2) - (\text{Number of persons between two persons} + 2)$

$= 27 - (5+2)$

$= 27 - 7$

$= 20$

Q6. In a row of 52 persons, A is 12th from the right corner and B is 24th from the left Corner then find the number of persons between A & B?

- A. 16 B. 18 C. 12 D. 14

[Level-1; Accenture, Wipro]

Answer: A

Explanation: -

In this Question $(\text{Total} > R1 + R2)$ means this is a simple Case.

Number of persons in between them = Total number of persons – (Sum of positions of two different persons from both Sides)

$= 52 - (36)$

$= 16$

Q7. In a certain code language, if MONITOR = 49 and NARCOTIC = 64. How will the 'STUPENDOUS' be written in that language?

- A) 49 B) 88 C) 64 D) 100 E) 81

[Level-2; Accenture, Wipro, Infosys, Chetu]

Answer: D

Explanation:

MONITOR: Number of words = 7 and $(7)^2 = 49$

NARCOTIC: Number of words = 8 and $(8)^2 = 64$

STUPENDOUS: Number of words = 10 and $(10)^2 = 100$.

Hence, STUPENDOUS is coded as 100.

Q8. In a certain code language "EASY" is written as "5117". In the same code language, how will "BEAM" be written as?

- A) 4512 B) 4567 C) 2513 D) 2514 E) 2563

[Level-3; Accenture, Wipro, Infosys, Chetu]

Answer: D

Explanation:

EASY → E is the 5th alphabet in the series

A is the first alphabet in the series

S is the 19th alphabet, which makes it $(1+9 = 10 \Rightarrow 1+0 = 1)$

Y is the 25th alphabet, which makes it $(2+5 = 7)$

Hence, EASY = 5117

Similarly,

BEAM → B is the 2nd alphabet in the series

E is the 5th alphabet in the series

A is the 1st alphabet in the series

M is the 13th alphabet, which makes it $(1+3 = 4)$

Hence BEAM = 2514

Q9. A clock which moves continuously fast, it lags 5 minutes on Sunday 8 AM, it is ahead 7 minute on Tuesday 8 AM. Find when the clock showed right time?

- a) Saturday 4 PM b) Saturday 4 AM c) Monday 4 PM d) Monday 4 AM

[Level-1; Topic-Clock; Accenture, Wipro, TCS]

Answer: D

Solution:

Time between Sunday 8 AM to Tuesday 8 AM = 48 hour

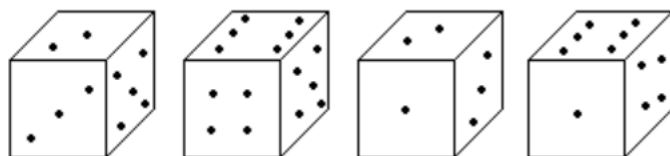
Formula: $\frac{(1st) \text{ Slow/Fast}}{Slow+Fast} \times \text{total}$

$$= 5/12 \times 48$$

$$= 20 \text{ hour}$$

$$\text{Sunday 8 AM} + 20 \text{ hour} = \text{Monday 4 AM}$$

Q10. How many points will be on the face opposite to in face which contains 2 points?



- A. 1 B. 5 C. 4 D. 6

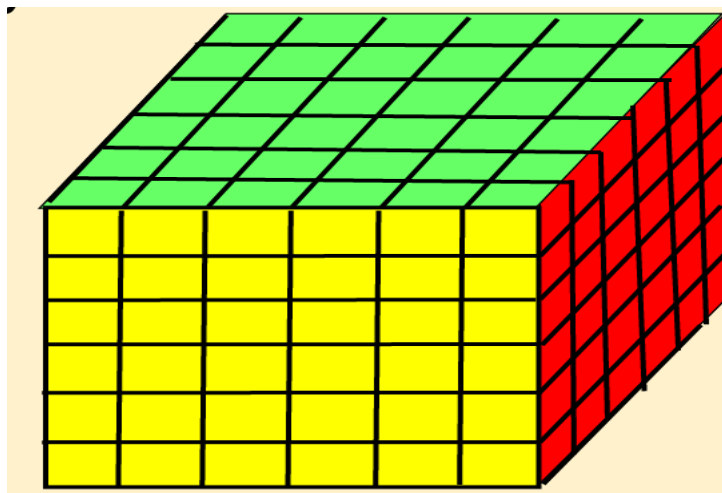
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

Answer: D

Solution: In first two positions of dice one common face containing 5 is same. Therefore according to rule no. (3) the face opposite to the face which contains 2 point, will contains 6 points.

Directions(Q11)

All the opposite faces of a big cube are coloured with yellow, red and green colours. After that is cut in to 216 identical small cubes.



Q11. How many small cubes are there only green colour painted?

- A. 96 B. 32 C. 28 D. 48

[Level-2; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: B

Solution:

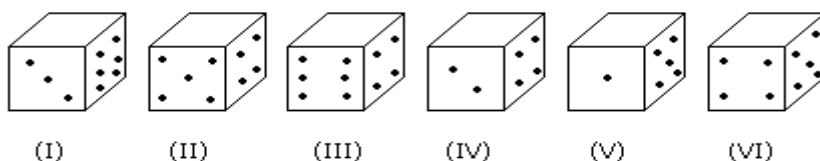
$n = 6/1 = 6$ No. of small cubes = $n^3 = 216$ so, $n = 6$

One face painted cube = $6(n - 2)^2 = 6(6 - 2)^2 = 96$

Only green painted cube = $96/3 = 32$

Directions (Q12 to Q15)

Six dice with upper faces erased are as shows.



The sum of the numbers of dots on the opposite face is 7.

Q12. If even numbered dice have even number of dots on their top faces, then what would be the total number of dots on the top faces of their dice?

- A. 12 B. 14 C. 18 D. 24

[Level-3; Topic-Dice; Wipro, Accenture]

Answer: C

Solution:

Even numbered dice are: (II), (IV) and (VI)

No. of dots on the top face of (II) dice = 6
 No. of dots on the top face of (IV) dice = 6
 and No. of dots on the top face of (VI) dice = 6
 Therefore Required total = $6 + 6 + 6 = 18$

Q13. If the odd numbered dice have even number of dots on their top faces, then what would be the total number of dots on the top faces of their dice?

- A. 8 B. 10 C. 12 D. 14

[Level-3; Topic-Dice; Wipro, Accenture]

Answer: A

Solution:

Odd numbered dice are : (II), (III) and (V)

No. of dots on the top faces of these dice are 2, 2 and 4 respectively.

Required total = $2 + 2 + 4 = 8$

Q14. If dice (I), (II) and (III) have even number of dots on their bottom faces and the dice (IV), (V) and (VI) have odd number of dots on their top faces, then what would be the difference in the total number of top faces between there two sets?

- A. 0 B. 2 C. 4 D. 6

[Level-3; Topic-Dice; Wipro, Accenture]

Answer: D

Solution:

No. of faces on the top faces of the dice (I), (II) and (III) are 5, 1 and 5 respectively.

Therefore, Total of these numbers = $5 + 1 + 5 = 11$

No. of dots on the top faces of the dice (IV), (V) and (VI) are 1, 3 and 1 respectively.

Therefore, Total of these numbers = $1 + 3 + 1 = 5$

Required difference = $11 - 5 = 6$

Q15. If the even numbers of dice have odd number of dots on their top faces and odd numbered dice have even of dots on their bottom faces, then what would be the total number of dots on their top faces?

- A. 12 B. 14 C. 16 D. 18

[Level-3; Topic-Dice; Wipro, Accenture]

Answer: C

Solution:

No. of dots on the top faces of the dice (II), (IV) and (VI) are 1, 1 and 1 respectively.

No. of dots on the top faces of the dice (I), (III) and (V) are 5, 5 and 3 respectively.

Required total = $5 + 5 + 3 + 1 + 1 + 1 = 16$