Week2_OLT4(LR)_CSE_Immersion_2025

Directions (Q1 to Q2): Study the following information carefully and answer the questions given below:

'P × Q' means 'P is son of Q'.

'P + Q' means 'P is daughter of Q'.

'P ÷ Q' means 'P is wife of Q'.

'P – Q' means 'P is father of Q'.

Q1. **Which of the following pairs represent the first cousins in the expressions**

"L ÷ V – J + P" and "S × A – D + F – E + K", If it is given that A is the sister of J?

A) LP B) SP C) SK

D) SF E) Cannot be determined

[Level-2; Accenture, Wipro, Infosys]

Answer: B)

Explanation: J father of P, and S son of A now given that A is the sister of J, Now A and J siblings. P is J's child, and S is A's, so both first cousins.

Q2. **If it is provided that M is grandmother of P, then what will come in place of ? in expression "P – H ÷ T ? M"….**

A) + B) – C) ÷ D) × E) None of these

[Level-2; Accenture, Wipro, Infosys]

Answer: E)

Explanation:

P father of H, H wife of T. Now for M to be grandmother of P, there is no relation given between T and M.

Q3. A man is facing west. He runs 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anticlockwise direction. Which direction is he facing now?

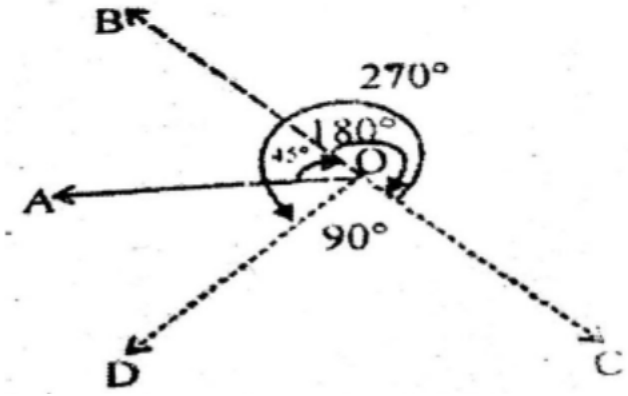
(a) South (b) North-west (c) West (d) South-west

[Level-1; Accenture, Wipro, Chetu]

Answer: D

Solution:

(d) Clearly, the man initially faces in the direction OA. On moving 45° clockwise, he faces in the direction OB. On further moving 180° clockwise, he faces in the direction OC. Finally, on moving 270° anticlockwise, he faces in the direction OD, which is South-west. Hence, the answer is (d)



Q4. Ganesh cycles towards South West a distance of 8 m, then he moves towards East a distance of 20 m. From there he moves towards North East a distance of 8 m, then he moves towards west a distance of 6 m. From there he moves towards North-East a distance of 2m. Then he moves towards west a distance of 4 m and then towards south west 2 km and stop at that point. How far is he from the starting point?

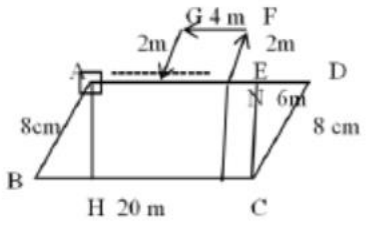
(a) 12m (b) 10m (c) 8m (d) 6m

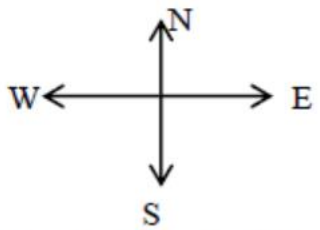
[Level-1; Accenture, Wipro, Chetu]

Answer: B

Solution:

(b)





$AO = 20 - (4 + 6) = 10m$

Q5. What will be the addition of the third digit from the right end and the fourth digit from the left end of the number '768395241' after arranging all its digits in descending order?

A. 8 B. 12 C. 17 D. 15 E. None of these

[Level-2; Accenture, Wipro, infosys]

Answer: E

Solution:

The given number: 7 6 8 3 9 5 2 4 1 **After arranging all its digits in descending order, we get:** 9 8 7 6 5 4 3 2 1 Now, **The third digit from the right end** = 3 **The fourth digit from the left end** = 6 Now, Addition of the third digit from the right end and the fourth digit from the left end = 3 + 6 = 9 Hence, the correct answer is option E.

Q6. In a class, there are 36 very tall boys. If these constitute three-fourths of the boys and the total number of boys is two-thirds of the total number of students in the class, what is the total number of girls in the class?

A. 36 B. 72 C. 24 D. 48 E. None of these

[Level-2; Accenture, Wipro, infosys]

Answer: C

Solution:

Given number of tall boys = 36 Let the number of boys be x, Now, according to the question, 3x/4 = 36 X = (36 X 4)/3 = 48 Total number of students = (48 X 3)/2 = 72 Now, the total number of girls = 72 - 48 = 24

Q7. Direction: Study the following question carefully and choose the right answer.

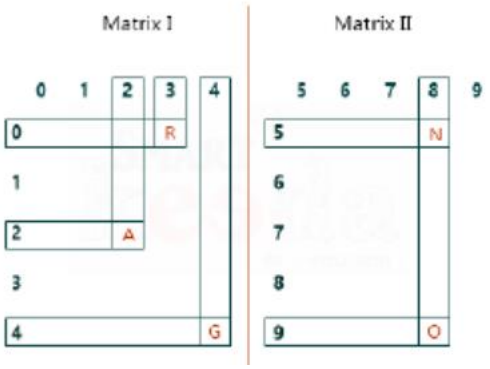
A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered – from 0 to 4 and that Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'ORGAN'.

Matrix - I					
	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

Matrix - II					
	5	6	7	8	9
5	E	M	L	N	O
6	L	E	O	M	N
7	O	N	E	L	M
8	N	O	M	E	L
9	M	L	N	O	E

A. 86, 40, 23, 14, 96 **B.** 98, 03, 44, 22, 58
C. 75, 03, 11, 22, 76 **D.** 67, 22, 31, 58, 22
[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: B
Solution:



Hence, the option B is correct.

Q8. If in a certain language, TRIANGLE is coded SQHZMFKD, then which word would be coded as DWZLOKD?
A. EXAMPLE B. DISMISS C. FIGMENT D. DISJOIN
[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: A
Solution:

T R I A N G L E
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
−1 −1 −1 −1 −1 −1 −1 −1
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
S Q H Z M F K D

Similarly;

D W Z L O K D
↓ ↓ ↓ ↓ ↓ ↓ ↓
+1 +1 +1 +1 +1 +1 +1
↓ ↓ ↓ ↓ ↓ ↓ ↓
E X A M P L E

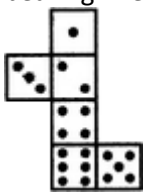
Q9. There are two clocks on a wall, both set to show the correct time at 5:00 p.m. The clocks lose 2 minutes and 3 minutes respectively in an hour. If the clock which loses 2 minutes in one hour shows the time as 9:50 p.m. on the same day, then what time does the other clock show?
(A) 9:30 p.m. (B) 9:40 p.m. (C) 9:45 p.m. (D) 10:15 p.m. (E) 10:00 p.m.
[Level-1; Topic-Clock; Accenture, Wipro, TCS]

Answer: C
Solution:
Time Lost Interpretation — Find what another slower clock shows when first one shows a certain time.

Q10. If the time in a clock is 10 hours 40 minutes, then what time does its mirror image show?
(A) 1 hour 25 minutes (B) 1 hour 15 minutes (C) 1 hour 10 minutes
(D) 1 hour 20 minutes (E) 1 hour 40 minutes
[Level-1; Topic-Clock; Accenture, Wipro, TCS]

Answer: D
Solution:
Mirror Image Calculation — Reverse a time to find what its mirror image would show.

Q11. When the following figure is folded to form a cube, how many dots lie opposite the face bearing five dots?



A. 1
B. 2
C. 3
D. 4
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

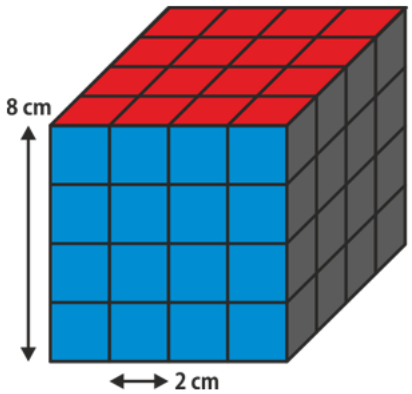
Answer: C
Solutions:
The given figure is similar to Form III. Therefore, when this figure is folded to form a cube then the face bearing three dots will lie opposite the face bearing five dots.

Q12. Choose the box that is similar to the box formed from the given sheet of paper (X).

A. 1 only
B. 1, 2 and 3 only
C. 2 and 3 only
D. 1, 2, 3 and 4
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

Answer: D
Solutions:
The fig. (X) is similar to the Form V. So, when the sheet in fig. (X) is folded to form a cube, then the face bearing a dot appears opposite to a blank face, the face bearing a '+' sign appears opposite to another blank face and the face bearing a circle appears opposite to the third blank face. Clearly, all the four cubes shown in figures (1), (2), (3) and (4) can be formed.

Directions: (Questions 13 to 15)
A solid cube of each side 8 cm, has been painted red, blue and black on pairs of opposite faces. It is then cut into cubical blocks of each side 2 cm.



Q13. How many cubes have two faces painted black?
A) 2 B) 4 C) 8 D) None
[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: D

Q14. How many cubes have one face painted blue and one face painted red? (the other faces may be painted or unpainted?
A) 16 B) 12 C) 8 D) 0
[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: C
Solution: Cubes have one face painted blue and one face painted red? (the other faces may be painted or unpainted = 4+4 = 8

Q15. How many cubes are there in all?
A) 64 B) 56 C) 40 D) 32
[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: A
Solution:
To find out total number of cubes we use this formula- (X)^3
Implementation of formula: X = 4
(4)^3 = 64