

Week2_OLT3(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. In the expression "K + H – P ? Q", what will come in place of ? if Q is mother of K?

- A) + B) – C) ÷ D) × E) None of these

[Level-2; Accenture, Wipro, Infosys]

Answer: E)

Explanation: K daughter of H, H father of P, so K and P siblings, now Q to be mother of K – P must be son or daughter of Q. so both × and +

Q2. Which of the following relation is true with regard to expression "B ÷ P × Z – K + O"?

- A) P is brother of O B) B is daughter-in-law of K C) B is daughter-in-law of O
D) O is daughter of Z E) None of these

[Level-2; Accenture, Wipro, Infosys]

Answer: C)

Explanation: B wife of P, P son of Z, Z father of K – so P and K siblings, K daughter of O So Z and O husband wife, P and K brother sister, B wife of P So B is daughter-in-law of O.

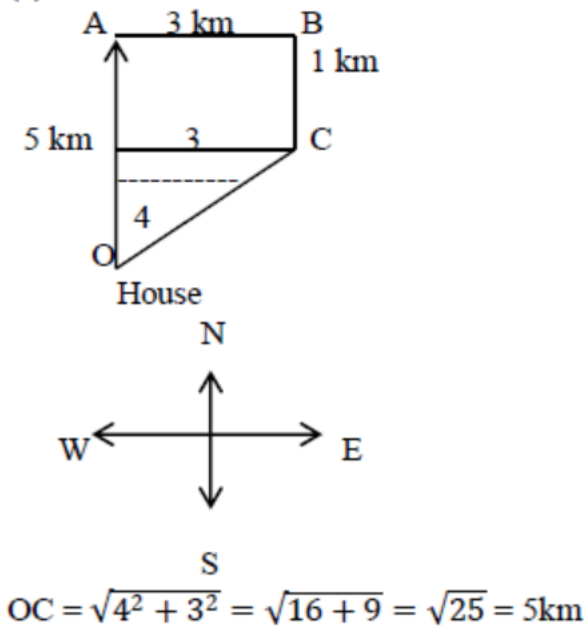
Q3. From my house I worked 5 km towards North. I turned right and walked 3 km. Again I went one km to south How far am I from my house?

- (a) 7km (b) 6km (c) 4km (d) 5km

[Level-1; Accenture, Wipro, Chetu]

Answer: D

Solution:



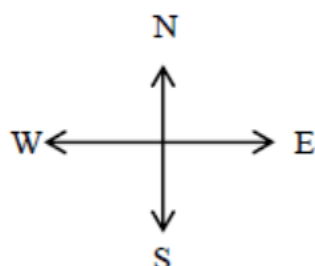
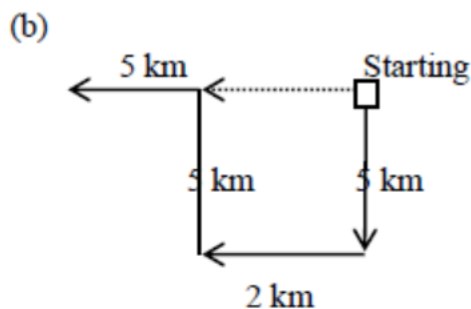
Q4. Ram left home and walked 5 km southward, turned right and walked 2 km and turned right and walked 5 km and turned left and walked 5 km. How many km will he have to walk to reach his home starting?

- (a) 5 (b) 7 (c) 17 (d) 15

[Level-1; Accenture, Wipro, Chetu]

Answer: B

Solution:



Required distance = $5 + 2 = 7\text{km}$

Q5. In a row of 68 people, Sonal is 22nd from the left and Rinku is 17th from the right. Counting from the left end, what will be the position of Pinku who is sitting exactly in the middle of Sonal and Rinku?

- A. 27 B. 41 C. 37 D. 34 E. None of these

[Level-2; Accenture, Wipro, infosys]

Answer: C

Solution:

Number of People between Sonal and Rinku = $68 - (22 + 17) = 29$ Position of Pinku sitting exactly in the middle of Sonal and Rinku = $(29 + 1)/2 = 15\text{th}$ Position of Pinku from the left end = $22 + 15 = 37\text{th}$ Option C is hence the correct answer.

Q6. What will be the difference between the third last digit and fourth digit from the left end of the number '947823165' after arranging all its digits in ascending order?

- A. 4 B. 5 C. 3 D. 7 E. None of these

[Level-2; Accenture, Wipro, infosys]

Answer: C

Solution:

The given number: 947823165 After arranging all the digits of the given number in ascending order, we have: 123456789 The third last digit = 7 The fourth digit from the left end = 4 The difference between the third last digit and fourth digit from the left end = $7 - 4 = 3$ Hence, the correct answer is option C.

Q7. In a certain code, 'TEACHER' is written as VGCEJGT. How is CHILDREN written in that code?

- A. EJKNEGTP B. EGKNFITP C. EJKNFGTO D. EJKNFTGP

[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: D

Solution:

T E A C H E R
 ↓ ↓ ↓ ↓ ↓ ↓ ↓
 +2+2+2+2+2+2+2
 ↓ ↓ ↓ ↓ ↓ ↓ ↓
 V G C E J G T

Similarly;

C H I L D R E N
 ↓ ↓ ↓ ↓ ↓ ↓ ↓
 +2+2+2+2+2+2+2
 ↓ ↓ ↓ ↓ ↓ ↓ ↓
 E J K N F T G P

Q8. If in a certain language, NEOMAN is coded as OGRQFT, which word will be coded as ZKCLUP?

- A. YIZHPJ B. XIAJSN C. YJBKTO D. YIAQKJ

[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: A

Solution:

N E O M A N
 ↓ ↓ ↓ ↓ ↓ ↓
 +1+2+3+4+5+6
 ↓ ↓ ↓ ↓ ↓ ↓
 O G R Q F T

Similarly;

Y I Z H P J
 ↓ ↓ ↓ ↓ ↓ ↓
 +1+2+3+4+5+6
 ↓ ↓ ↓ ↓ ↓ ↓
 Z K C L U P

Q9. A watch showed 10 minutes past 6 O'clock on Thursday morning when the correct time was 6 O'clock. It loses uniformly and was observed to be 15 minutes slow at 8 O'clock on Saturday morning. When did the watch show the correct time?

- (A) 1 O'clock on Friday afternoon (B) 12 O'clock noon on Friday
 (C) 4 O'clock on Friday evening (D) 4 O'clock on Friday morning
 (E) 2 O'clock on Friday morning

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

Answer: E

Solution:

Uniform Loss — Calculate when a losing watch was accurate.

Q10. Two clocks are showing correct time at 4:00 p.m. One clock loses 3.5 minutes in an hour, while the other gains 2.5 minutes in one hour. At 10:00 p.m. on the same day, by how much time will the two clocks differ?

- (A) 12 minutes (B) 36 minutes (C) 24 minutes
 (D) 30 minutes (E) 18 minutes

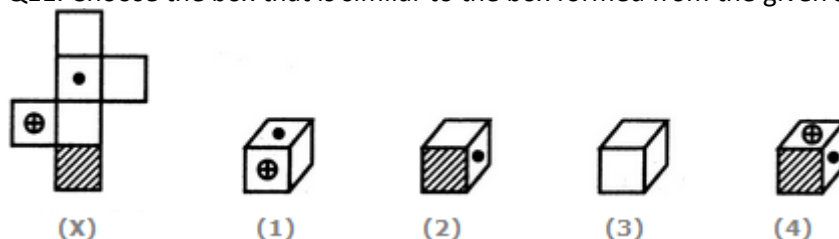
[Level-1; Topic-Clock; Accenture, Wipro, TCS]

Answer: B

Solution:

Relative Drift of Two Clocks — Determine difference after both drift in opposite directions.

Q11. Choose the box that is similar to the box formed from the given sheet of paper (X).



- A. 1 only
- B. 1 and 3 only
- C. 1, 3 and 4 only
- D. 1, 2, 3 and 4

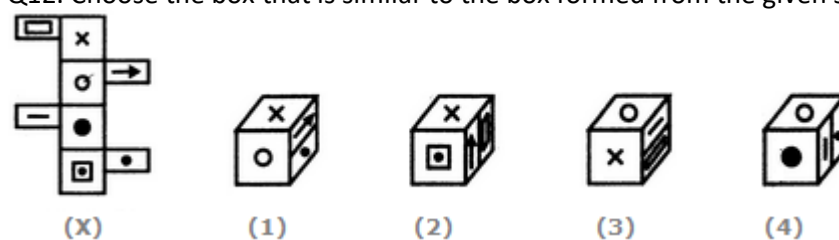
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

Answer: A

Solutions:

The fig. (X) is similar to **Form IV**. So, when the sheet shown in fig. (X) is folded to , form a cube, then the face bearing the dot lies opposite to the shaded face, the face bearing a circle (with '+' sign inside it) lies opposite to a blank face and the remaining two blank faces lie opposite to each other. Clearly, the cubes shown in figures (2) and (4) cannot be formed since they have the shaded face adjacent to the face bearing a dot and the cube shown in fig. (3) cannot be formed since it shows all the three blank faces adjacent to each other. Hence only the cube shown in fig. (1) can be formed.

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





- A. 1 and 2 only
- B. 1 and 3 only
- C. 3 and 4 only
- D. 1, 2, 3 and 4

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

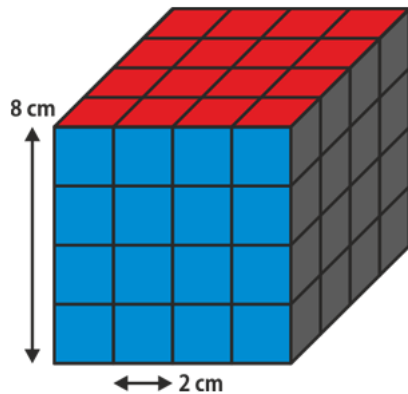
Answer: B

Solutions:

The fig. (X) is similar to the **Form VIII**. So, when a cube is formed by folding the sheet shown in fig.

(X), then  and  are the two faces and these two faces lie opposite to each other. Also, the face bearing the 'x' sigh lies opposite to the face bearing the black circle and the face bearing the white circle lies opposite to the face bearing the square (having a dot inside it). Now, the cubes in figures (2) and (4) consist of faces which are not formed when the sheet in fig. (X) is folded. Hence, these two cubes are not, formed. Therefore, only the cubes in figures (1) and (3) are formed.

Directions: (Questions 13 to 14) 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 red and black and all other faces unpainted?

- A) 4 B) 8 C) 16 D) 32

[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: B

Solution:

Cubes have two faces painted red and black and all other faces unpainted = $4 + 4 = 8$

Q14. How many cubes have only one face painted red and all other faces unpainted?

- A) 4 B) 8 C) 12 D) 16

[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: B

Solution:

Cubes have only one face painted red and all other faces unpainted = Central Cubes of Red Face = $4 + 4 = 8$

Q15. Q travels towards East. M travels towards North. S and T travel in opposite directions. T travels towards right of Q. Which of the following is definitely true?

- (a) M and S travel in the opposite directions. (b) S travels towards West.
 (c) T travels towards North. (d) M and S travel in the same direction.

Answer: D

Solution:

We have been given that Q travels towards East and M travels towards North. Now, T travels towards right of Q implies that T travels towards South. Hence, S travels towards North (because S and T Travel in opposite directions). Therefore, it is definitely true that M and S travel in the same direction i.e., North.