

Week1_OLT4(LR)_CSE_Immersion_2025

Q1. If $P \# Q$ means 'P is the sister of Q', $P + Q$ means 'P is the wife of Q', $P @ Q$ means 'P is the son of Q', and $P \$ Q$ means 'P is the mother of Q', then what will come in the place of question mark, if it is provided that 'D is the daughter-in-law of T' in the expression

D \$ R ? L @ T

- A) + B) # C) \$
 D) @ E) + or @

[Level-2; Accenture, Wipro, Infosys]

Answer: D

Explanation: L is son of T, D is mother of R, so R should be child of D and L, for D to be daughter in law of T.

Q2. Looking at a lady in a photograph, Tanya said, "She is my mother's mother's daughter". How is the lady related to Tanya? A) Aunt B) Sister C) Sister in law

- D) Daughter E) Cannot be determined

[Level-2; Accenture, Wipro, Infosys]

Answer: E

Explanation: Since it is not specified that mother's mother have how many daughters, so lady can be mother or aunt of Tanya.

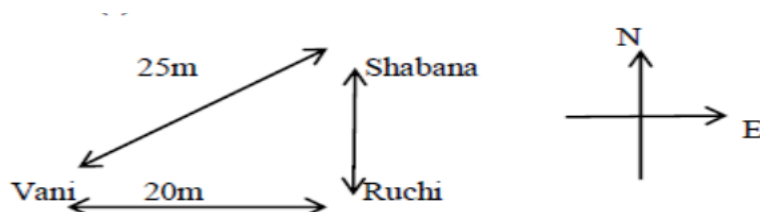
Q3. Ruchi's house is to the right of Vani's house at a distance of 20 metres in the same row facing North. Shabana's house is in the North-East direction of Vani's house at a distance of 25 metres. Determine that Ruchi's house is in which direction with respect of Shabana's house?

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

[Level-1; Accenture, Wipro, Chetu]

Answer: C

Solution:



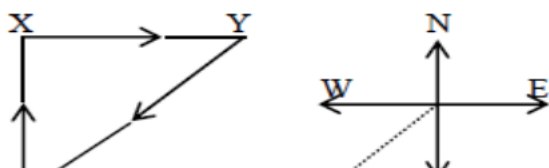
Q4. Y is to the East of X, which is to the North of Z. If P is to the South of Z, then P is in which direction with respect to Y?

- (a) North (b) South (c) South-East (d) None of these

[Level-1; Accenture, Wipro, Chetu]

Answer: D

Solution:



Directions(Q5 to Q9):

Study the following information carefully and answer the questions given below:

Seven persons – Kajal, Bhagat, Mandeep, Kiran, Rinku, Pranav, and Shreya have different height and weight such that the tallest one is not the heaviest one.

Kiran is taller than Kajal but not heavier than Shreya. Bhagat is heavier than Rinku but not as much tall as Mandeep. Pranav is heavier than Bhagat and Rinku but shorter than Mandeep and Bhagat. Kiran is not taller than Pranav. Shreya is not taller than Kajal and also not heavier than Rinku. Kajal is not lighter than Mandeep who is heavier than Bhagat. Mandeep is shorter than only one person. Pranav is not the second heaviest and is lighter than Mandeep.

[Level-3; Topic-Ranking Test, Accenture, TCS, Wipro, infosys]

Q5. Who among the following is the second lightest?

- A. Pranav B. Rinku C. Kajal D. Shreya E. None of these

Answer: D

Solution

In Decreasing Order	Height	Weight
1	Mandeep	Mandeep
2	Bhagat	Pranav
3	Pranav	Bhagat
4	Kiran	Rinku
5	Kajal	Shreya
6	Shreya	Kiran
7	Rinku	Kajal

Q6. How many person(s) are heavier than the one who is second shortest?

- A. None B. One C. Two D. Three E. More than three

Answer: A

Solution

In Decreasing Order	Height	Weight
1	Mandeep	Mandeep
2	Bhagat	Pranav
3	Pranav	Bhagat
4	Kiran	Rinku
5	Kajal	Shreya
6	Shreya	Kiran
7	Rinku	Kajal

Q7. Who among the following is the heaviest?

- A. Shreya B. Mandeep C. Kajal D. Pranav E. None of these

Answer: C

Solution

In Decreasing Order	Height	Weight
1	Mandeep	Mandeep
2	Bhagat	Pranav
3	Pranav	Bhagat
4	Kiran	Rinku
5	Kajal	Shreya
6	Shreya	Kiran
7	Rinku	Kajal

Q8. Which of the following statements is/are true?

- A. Kiran is heaviest B. Shreya is shortest C. Bhagat is third heaviest
 D. All are true E. None is true

Answer: B

Solution

In Decreasing Order	Height	Weight
1	Mandeep	Mandeep
2	Bhagat	Pranav
3	Pranav	Bhagat
4	Kiran	Rinku
5	Kajal	Shreya
6	Shreya	Kiran
7	Rinku	Kajal

Q9. Which of the following persons is the tallest?

- A. Kiran B. Kajal C. Rinku D. Shreya E. None of these.

Answer: C

Solution

In Decreasing Order	Height	Weight
1	Mandeep	Mandeep
2	Bhagat	Pranav
3	Pranav	Bhagat
4	Kiran	Rinku
5	Kajal	Shreya
6	Shreya	Kiran
7	Rinku	Kajal

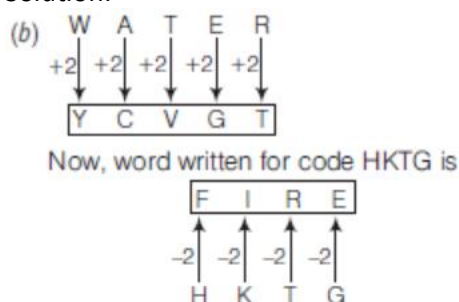
Q10. If 'WATER' is written as 'YCVGT', then what is written as 'HKTG'?

- (a) IRFE (b) FIRE
 (c) REFI (d) ERIF

[Level-1; Topic-Coding-Decoding; Accenture, Wipro, Infosys, Chetu]

Answer: B

Solution:



Q11. What is the angle between the hour hand and the minute hand at 4:39 PM?

- a) 84.5° b) 94.5° c) 114.5° d) 24.5°

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

Answer: B

Solution:

$$\text{Angle} = \theta = \left| \frac{60 \times \text{hour} - 11 \times \text{minute}}{2} \right|^\circ$$

$$\text{And another angle} = (360 - \theta)^\circ$$

$$\therefore \theta = \left| \frac{60 \times 4 - 11 \times 39}{2} \right|^\circ$$

$$= \left| \frac{240 - 429}{2} \right|^\circ$$

$$= \frac{189}{2}^\circ$$

$$= 94.5^\circ$$

$$\text{And another angle} = (360 - \theta)^\circ = (360 - 94.5)^\circ = 265.5^\circ$$

Q12. What is the angle between the hour hand and the minute hand at 1:18 AM?

- a) 217° b) 67° c) 69° d) 219°

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

Answer: C

Solution:

$$\text{Angle} = \theta = \left| \frac{60 \times \text{hour} - 11 \times \text{minute}}{2} \right|^\circ$$

$$\text{And another angle} = (360 - \theta)^\circ$$

$$\therefore \theta = \left| \frac{60 \times 1 - 11 \times 18}{2} \right|^\circ$$

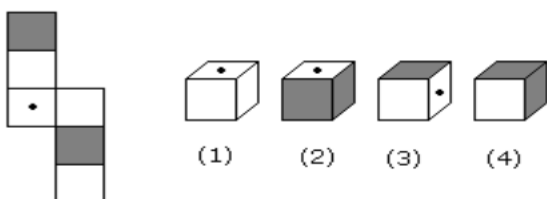
$$= \left| \frac{60 - 198}{2} \right|^\circ$$

$$= \frac{138}{2}^\circ$$

$$= 69^\circ$$

$$\text{And another angle} = (360 - \theta)^\circ = (360 - 69)^\circ = 291^\circ$$

Q13. The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that is similar to the box formed.



A. 2 and 3 only

B. 1, 3 and 4 only

C. 2 and 4 only

D. 1 and 4 only

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

Q14. All the faces of a cube are painted with blue colour. Then it is cut into 125 small equal cubes. How many small cubes will be formed having only one face coloured?

- A. 54 B. 8 C. 16 D. 24

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

Answer: D

Solution:

$n = 5/1 = 5$ No. of small cubes = $n^3 = 125$ so, $n = 5$

One face painted cube = $6(n-2)^2 = 6(5-2)^2 = 54$

Q15. All the faces of a cube are painted with blue colour. Then it is cut into 125 small equal cubes. How many small cubes will be formed having no face coloured?

A. 27 B. 8 C. 16 D. 2

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

Answer: A

Solution:

$n = 5/1 = 5$ No. of small cubes = $n^3 = 125$ so, $n = 5$

no face painted cube = $(n - 2)^3 = (5 - 2)^3 = 27$