Direction (Q1 to Q3) Read the following information carefully to answer the following questions.

'A # B' means 'A is the daughter of B'

'A © B' means 'B is the brother of A'

'A = B' means 'B is the sister of A'

'A & B' means 'A is the son of B'

'A * B' means 'A is the father of B'

'A @ B' means 'A is the mother of B'

1. **What does the expression "P @ R = Q © S & T"?**
A. T is the husband of P   B. R is the son of T   C. R is the daughter of T
D. T is the wife of P   E. None of these
[Level-2; Accenture, Wipro, Infosys]

Answer- **A.**
Solution:
T is the husband of P

2. **Which of the following indicates that "A is the paternal uncle of B"?**
A. A & U # Q @ R © B
B. A & U & R @ Q © B
C. B & R & Q @ U © A
D. B & Q # U @ R © A
E. None of these
[Level-2; Accenture, Wipro, Infosys]

Answer – **C.**
Solution: B & R & Q @ U © A

3. **Which of the following can be the correct conclusion drawn from the expression "A = P # Q © V * R"?**
A. R is the grandson of P
B. A is the uncle of Q
C. Q is the uncle of R
D. R is the niece of Q
E. None of these
[Level-2; Accenture, Wipro, Infosys]

Answer **E.**

4. **Which of the following can be correct conclusion drawn from the expression "E & C @ D © G = F"?**

A. D is the brother of F
B. C has two sons and two daughters
C. D is the sister of F
D. F is the sister of E
E. None of these
[Level-2; Accenture, Wipro, Infosys]

Answer **D.**
Solution:
F is the sister of E

5. **Which of the following indicates "M is the daughter of N"?**
A. Q * P # C @ N @ V
B. N * D # R @ M @ B
C. F @ N # R * M
D. F © M = B # N
E. None of these
[Level-2; Accenture, Wipro, Infosys]

Answer **B.**
Solution:
N * D # R @ M @ B

6. Sobha was facing East. She walked 20 metres. Turning left she moved 15 metres and then turning right moved 25 metres. Finally, she turned right and moved 15 metres more. How far is she from her starting point?
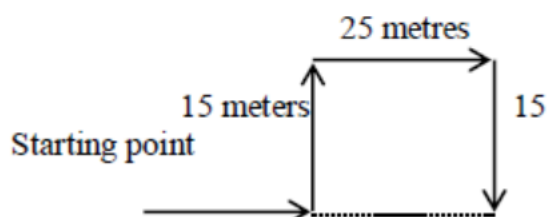(a) 25 metres   (b) 35 metres   (c) 50 metres   (d) 45 metres
[Level-1; Accenture, Wipro, Chetu]

Answer: D
Solution:
(d)

7. Jatin leaves his house and walks 12 km towards North. He turns right and walks another 12 km. He turns right, walks 12 km more and turns left to walk 5 km. How far is he from his home and in which direction?
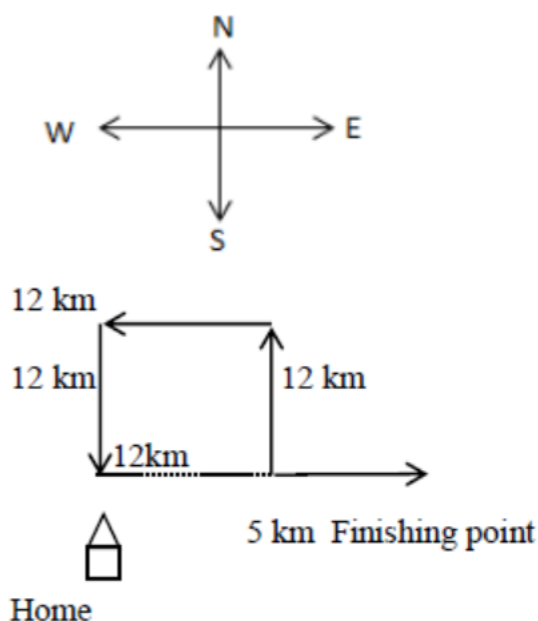(a) 7 km east   (b) 10 km east   (c) 17 km east   (d) 24 km east
[Level-1; Accenture, Wipro, Chetu]

Answer: C
Solution:

(c) (12 km + 5 km = 17 km)

8. If the digits in the number '578462139' are arranged in ascending order, then how many digits remain in the same place?
A. Only one   B. Two   C. Three   D. Four   E. None of these
[Level-2; Accenture, Wipro, infosys]

Answer: B
Solution:
The given number: 5 7 8 4 6 2 1 3 9 After arranging all the digits in ascending order, we get:
1 2 3 **4** 5 6 7 8 **9**
Hence, there are two such digits whose positions are remained unchanged. Hence, the correct answer is option B.

9. In a school, final selection list of the class 12th students who opted for extracurricular activities was posted in the corridor. In the list Vikas was ranked 18th from the top and 36th from the bottom among those who got selected. 12 students did not opt for any extracurricular activity and 7 were disqualified from it. How many students were there in the class?
A. 61   B. 72   C. 57   D. 88   E. None of these
[Level-2; Accenture, Wipro, infosys]

Answer: B
Solution:
Total number of students who got selected = (Vikas's rank from the top + Vikas's rank from the bottom) - 1 = 18 + 36 − 1 = 53 Hence, total number of students who were in class 12th = 53 + 12 + 7 = 72 Hence, the correct answer is option B.

10. If BOMBAY is coded as FSQFEC, which word could be coded as QCWSVI?
A. MANDYA   B. MANDAL   C. MYSORE   D. MYSOER
[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: C

Solution:

```
B O M B A Y
↓ ↓ ↓ ↓ ↓ ↓
+4+4+4+4+4+4
↓ ↓ ↓ ↓ ↓ ↓
F S Q F E C
```

Similarly;

```
O C W S V I
↓ ↓ ↓ ↓ ↓ ↓
-4-4-4-4-4-4
↓ ↓ ↓ ↓ ↓ ↓
M Y S O R E
```

11. In a code TIGER is written as SHFDQ, how shall HORSE be written in that code?

A. GNRQD   B. GNQRD   C. GRNQD   D. GMQRD

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

Answer: B

Solution:

```
T I G E R
↓ ↓ ↓ ↓ ↓
-1-1-1-1-1
↓ ↓ ↓ ↓ ↓
S H F D Q
```

Similarly;

```
H O R S E
↓ ↓ ↓ ↓ ↓
-1-1-1-1-1
↓ ↓ ↓ ↓ ↓
G N Q R D
```

12. How many times, the hands of a clock will be at 30° with each other in a day?

(A) 36   (B) 40   (C) 44   (D) 48   (E) 42

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

Answer: C

Solution:

Relative Angle Calculation — Determine how many times clock hands are at a 30° angle in 24 hours.

13. How many times, the minute hand of a clock overlaps with the hour hand from 9:00 a.m. to 4:00 p.m. in a day?
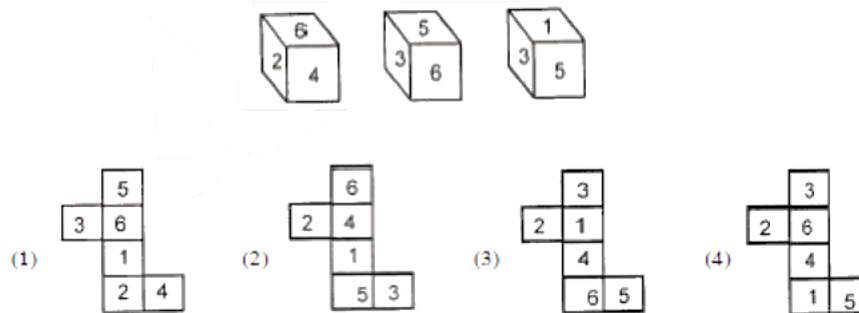
(A) 5   (B) 6   (C) 7   (D) 8   (E) 9

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

Answer: B
Solution:
Overlap Analysis — Count overlaps of minute and hour hand between 9:00 AM to 4:00 PM.

Q14. The six faces of a cube have been marked with numbers 1, 2, 3, 4, 5 and 6 respectively. This cube is rolled down three times. The three positions are given. Choose the figure that will be formed when the cube is unfolded.
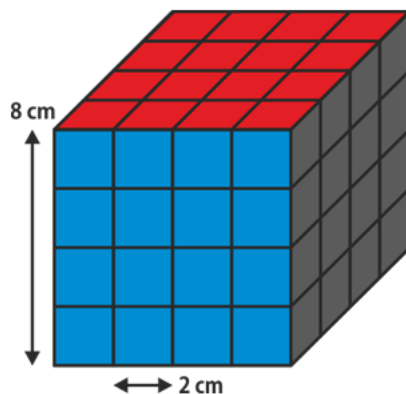

A. 1   B. 2   C. 3   D. 4
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

Answer: D

Q15. 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.

How many cubes have only one face painted?
A) 8   B) 16   C) 24   D) 28
[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: C
Solution:
Cubes have only one face painted = Central cubes : In middle of faces & has only one coloured side.
We can find out the total number of cubes with singe colour on any side with this formula: $6(X-2)^2$
Implementation of formula: X = 4
$6(4-2)^2 = 6(2)^2 = 24$