

# REASONING

## Reasoning Puzzles - Numerical and Seating Arrangement Worksheet

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

**Directions (1-4) Read the following information carefully and answer the questions that follow.**

Eight friends are sitting around a circular table facing the centre. Their names are A, B, C, D, E, F, G, H.

- G sits opposite to B who is immediate right of H.
- E sits between A and H but not opposite to F.
- D is not neighbour of either G or E.
- C sits exactly opposite to E.
- F is not immediate neighbour of B.

1. Who sits exactly opposite to A?

- A. F
- B. G
- C. D
- D. B

2. In the following pairs, who are the neighbours of E?

- A. BH
- B. AH
- C. GH
- D. CF

3. Which person sits in the middle of B and E and is also their neighbour?

- A. F
- B. H
- C. D
- D. G

4. If the positions of A and G, H and E, D and B, C and F are interchanged then who sits third to the right of C?

- A. B
- B. A
- C. D
- D. H

**Directions (5-9) Read the following information carefully and answer the questions that follow.**

9 friends, A, B, C, D, E, F, G, H, I are staying in 3 different floors of an apartment. Each floor has 3 plots sequentially.

- G stays in the first floor and not adjacent to either D or E.
- B and H will not stay in the same floor.
- Neighbours of B are A and C. C stays in the same column and next floor of E, who lives in the second floor.
- I's plot is to the second left of H's plot in first floor.
- B stays two floors above to G; G's plot and B's plot are in the same column.
- F is in second plot in the second floor from left end.
- D stays above to the 1st floor and plot.

5. Who stays below to A's plot?

- A. F
- B. D
- C. E
- D. B

6. In which of the following floors, G do not stay?

- A. 1 and 2
- B. 2 and 3
- C. 1 and 3
- D. none

7. Who are the neighbors of F in the same floor?

- A. DA
- B. CE
- C. DE
- D. IH

8. Which of the following group of persons stay in the same floor?

- A. AGI
- B. BFG
- C. CEH
- D. EDF

9. Which of the given statement is superfluous?

- A. First
- B. Second
- C. Third
- D. Seven

**Directions (10-14) Read the following information carefully and answer the questions that follow.**

- i. P, Q, R, S, T, U and V are sitting around a circular table facing the centre
- ii. R is next to the left of U and V is second to the left of R.
- iii. P is sitting third to the left of T.
- iv. Q is between S and T.

10. Which of the following is false?

- A. P is fourth to the right of T.
- B. U is to the immediate right of R.
- C. U is third to the right of S.
- D. Q is to the immediate left of S.

11. Which of the following is true?

- A. R is fourth to the right of T.
- B. P is to the immediate right of V.
- C. S is second to the left of T.
- D. Q is second to the right of V.

12. Which of the following pairs has the first person sitting to the immediate left of the second person?

- A. QT
- B. RP
- C. VS
- D. SV

13. In which of the following options, the middle person is sitting between the other two?

- A. URT
- B. TUQ
- C. STQ
- D. None of these

14. What is the position of U?

- A. Fourth to the right of S
- B. To the immediate left of R
- C. Between P and T
- D. To the immediate right of P

**Directions (15-19) Read the following information carefully and answer the questions that follow.**

- i. K, L, M, N, O, P and Q are sitting in a circle facing at the centre and playing cards.
- ii. is neighbour of K and N.
- iii. Q is not between P and M.
- iv. P is to the immediate right of K.
- v. L is second to the left of Q.

15. Which of the following does not have the pair of persons sitting adjacent to each other?

- A. LK
- B. ML
- C. NO
- D. QN

16. Which of the following pairs has the second person sitting immediately to the right of the first?

- A. KL
- B. ML
- C. OK
- D. None of these

17. What is the position of P?

- A. Second to the left of M
- B. Second to the right of M
- C. To the immediate left of K
- D. To the immediate right of L

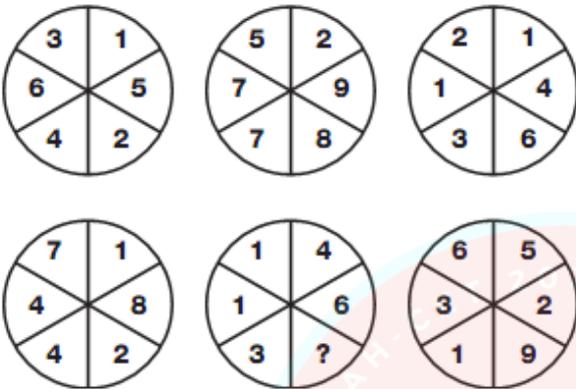
18. Who are the neighbours of L?

- A. K and P
- B. M and N
- C. P and M
- D. None of these

19. Which of the following persons are sitting adjacent to each other in clockwise order as shown?

- A. LQM
- B. PLM
- C. MNQ
- D. ONQ

20. Which number replaces the question mark?



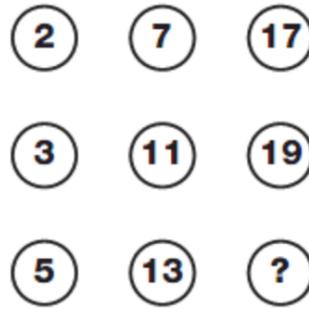
- A. 6
- B. 7
- C. 8
- D. 9

21. Which number replaces the question mark?

10	
8	13
16	6
4	19
22	?

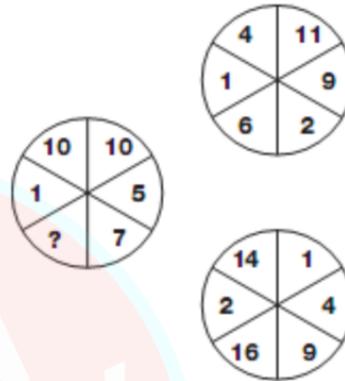
- A. 8
- B. 2
- C. 4
- D. 6

22. Which number replaces the question mark?



- A. 23
- B. 28
- C. 35
- D. 42

23. Which number replaces the question mark?



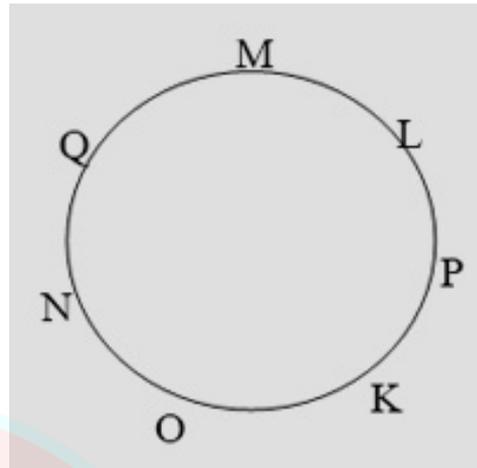
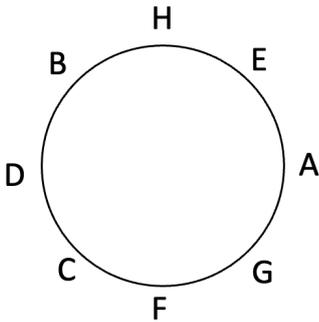
- A. 1
- B. 5
- C. 10
- D. 15

## Answer Key

1. C	2. B	3. B	4. D	5. B	6. B	7. C	8. D	9. D	10. C
11. B	12. D	13. D	14. A	15. A	16. C	17. A	18. C	19. D	20. B
21. B	22. A	23. B							

## HINTS & SOLUTIONS

1-4.

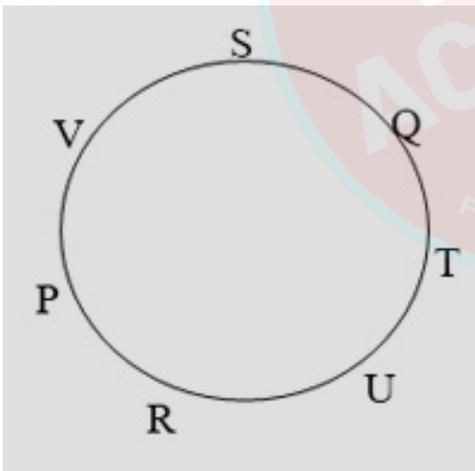


5-9.

Floor 3	A	B	C
Floor 2	D	F	E
Floor 3	I	G	H

20. Taking the top row of circles, numbers in the central circle equal the sum of the numbers in corresponding segments of the left and right hand circles. In the bottom row, numbers in the central circle equal the difference between numbers in corresponding segments of the left and right hand circles.

10-14.



21. Starting with the 10 at the top, one set of numbers increases by 3 each time, written in alternate boxes as you move down the diagram, and the other set of numbers decreases by 2, written in the boxes remaining.

22. Starting top left, and moving down in columns from left to right, the numbers follow the sequence of Prime Numbers from 2 to 23.

23. Numbers in the segments of the left hand circle equal the difference between numbers in corresponding segments of the two right hand circles.

15-19.