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Advanced Educational Activities Pvt. Ltd.

**LOGICAL ABILITY WORKSHOP HANDOUT**

(Puzzles, Ranking)

**Ref: LWHO2502505**

***Directions for questions 1 to 30:*** Select the correct alternative from the given choices

The arrangement is as follows.

**C B A D 🡹**

**1.** Four persons A, B, C, and D sit in a row and all face north, but not necessarily in the same order. B sits second to the left of D, who is not an immediate neighbour of C. Which of the following statements is true with respect to A?

(1) A sits at the left end.

(2) A sits at the right end.

(3) A sits to the immediate left of D.

(4) A sits to the immediate right of D.

The final arrangement is as follows.

**Y W V X U 🡹**

**2.** Five persons U, V, W, X, and Y sit in a row and all face north, but not necessarily in the same order.   
One person sits between W and X. X sits to   
the immediate left of U. V sits second to the right of Y. Who sits to the immediate left of V?

(1) X (2) W (3) U (4) Y

The final arrangement is as follows.

**F I G D E H🡻**

**3.** Six persons D, E, F, G, H and I sit in a row and all face south, but not necessarily in the same order. Two persons sit between G and H, who sits at one of the ends. One person sits between D and I. F sits to the immediate right of I. E does not sit at an end.   
Who sits second to the left of G?

(1) H (2) E (3) D (4) F

The final arrangement is as follows

**O S Q M P N R 🡹**

**4.** Seven persons M, N, O, P, Q, R and S sit in a row and all face north, but not necessarily in the same order. One person sits between M and S. P sits to   
the immediate left of N. Two persons sit between   
P and S, who sits to the left of M. The number of persons sitting to the right of O is the same as   
the number of persons sitting to the left of R, who sits at one of the ends. N sits to the right of O. Who sits exactly in the middle of the row?

(1) R (2) N (3) M (4) O

The final arrangement is as follows.

**J L F K G I H🡹**

**5.** Seven persons F, G, H, I, J, K and L sit in a row, and all face north, but not necessarily in the same order. K sits to the immediate right of F. One person sits between F and J, who is not a neighbour of K. G is an immediate neighbour of I. Two persons sit between   
H and K. I sits to the immediate left of H. Who sits third to the right of L?

(1) H (2) J (3) K (4) G

The final arrangement is as follows.

**G B C F D I H E🡻**

**6.** Eight persons B, C, D, E, F, G, H, and I sit in a row and all south, but not necessarily in the same order. E sits second to the left of I, who sits adjacent to   
D. Two persons sit between F and G. D sits fourth to the left of G. B sits second to the right of F and C sits to the right of D. What is the position of D with respect to H?

(1) Second to the left (2) Second to the right

(3) Third to the right (4) Immediate right

The final arrangement is as follows.

X \_ \_ R \_ \_ \_ \_ \_ \_ Y W Z \_ \_ S \_ T V 🡹

**7.** A certain number of persons sit in a row and all are facing north. X sits at one of the ends. W sits to   
the immediate left of Z and to the immediate right of Y. Six persons sit between V and W. T sits to   
the immediate left of V and to the right of Z. V sits at one of the ends. One person sits between S and T. The number of persons sit between T and Y is   
the same as the number of persons sit between R and Y. Two persons sit between R and X. How many persons sit in the row?

(1) 20 (2) 17 (3) 19 (4) 22

**8.** Five persons A, B, C, D, and E sit around a circular table and all of them are facing the center, but not necessarily in the same order. C sits second to   
the left of A. D sits adjacent to B and A. Who sits second to the left of B?

(1) A (2) E (3) C (4) D

**9.** Six persons P, Q, R, S, T and U sit around a circular table and all of them are facing the center, but not necessarily in the same order. U sits second to   
the right of Q, who is an immediate neighbour of neither P nor R. T sits adjacent to P. What is   
the position of S with respect to T?

(1) Third to the left (2) Second to the left

(3) Immediate right (4) Second to the right

**10.** Six persons E, F, G, H, I and J sit around a circular table and all of them are facing away from the center, but not necessarily in the same order. Only two persons sit between F and J. G sits to the immediate left of J. F sits adjacent to E and I, who is an immediate neighbor of G. Who sits to the immediate left of H?

(1) E (2) G (3) F (4) J

the final seating arrangement is as follows.

T

S

Q

V

P

R

U

**11.** Seven persons P, Q, R, S, T, U and V sit around   
a circular table and all of them face the center, but not necessarily in the same order. Q sits to the immediate left of R and to the immediate right of P. Two persons sit between U and T. V sits to the immediate right of T. How many persons sit between S and T when counted from the left of S?

(1) One (2) Two

(3) More than two (4) None

The final seating arrangement is as follows,

E

G

C

F

D

A

B

**12.** Seven persons A, B, C, D, E, F and G sit around   
a circular table and all of them are facing away from the center but not necessarily in the same order.   
B sits third to the right of E. A sits third to the left of D, who sits adjacent to B. C sits adjacent to neither A nor E. F sits adjacent to B. Who sits second to the right of E?

(1) B (2) C (3) F (4) D

The final seating arrangement is as follows,

N

K

M

L

O

R

P

Q

**13.** Eight persons K, L, M, N, O, P, Q and R sit around   
a circular table and all of them are facing the centre, but not necessarily in the same order. N sits third to the right of M. R sits adjacent to N. K sits third to the left of M. P sits adjacent to O, but sits adjacent to neither N nor M. O sits second to the left of Q, who is not adjacent to L. Who sits to the immediate left of M?

(1) O (2) R (3) P (4) L

The final seating arrangement is as follows,

X

W

U

V

T

Z

Y

S

**14.** Eight persons S, T, U, V, W, X, Y, and Z sit around   
a square table and all of them face the center but not necessarily in the same order. Four persons sit in   
the middle of the sides and the remaining four persons sit at the corners of the table. Z sits opposite V. T is an immediate neighbour of neither Z nor V. Three persons sit between S and Y, who sits to   
the immediate left of V. S does not sit at the middle of the side of the table. W sits adjacent to T. U sits third to the right of Y. Who sits opposite T?

(1) X (2) U (3) V (4) Y

**15.** Four students got different marks in an interview.   
M got more marks than O. N got less marks than P, O got more marks than N, and P did not get   
the highest marks. Who got the highest marks?

(1) M

(2) N

(3) O

(4) Cannot be determined

**16.** Five persons are of different weights. Bharathi is heavier than Deepthi. Aadhya is heavier than Chanakya and lighter than Ekalavya. Ekalavya is lighter than Deepthi. Who is the lightest person?

(1) Deepthi (2) Ekalavya

(3) Aadhya (4) Chanakya

**17.** Five women are of different heights. Prema is taller than Reshma. Amani is shorter than Manasa. Gauthami is shorter than Reshma and taller than Manasa. Who is the third shortest person?

(1) Prema (2) Reshma

(3) Gauthami (4) Manasa

**18.** Six persons P, Q, R, S, T, and U are of different weights. Q is heavier than both T and S. P is lighter than R, who is not the heaviest. P is heavier than Q. Who is   
the heaviest among them all?

(1) U (2) R (3) P (4) Q

the final comparison is as follows.

Z > X > U > W > Y > V

**19.** Six candidates U, V, W, X, Y, and Z got different marks in an examination. Z got more marks than   
U and Y. Z got more marks than X. Y got more marks than V, but less marks than X. W got the third lowest marks. U got less marks than X and more than Y. Who got the highest marks?

(1) U (2) Z (3) X (4) Y

the final arrangement is as follows.

F > B > D > A > C > E > G

**20.** Seven persons A, B, C, D, E, F, and G are comparing their ages. No two persons are of the same age.   
Only two persons are younger than C. B is older than   
D, who is older than both A and G. E is not   
the youngest. Only F is older than B. A is older than E. Who is the youngest among all?

(1) F (2) A (3) G (4) D

The final arrangement is as follows.

|  |  |
| --- | --- |
| Person | Country |
| Rajini | India |
| Lokesh | China |
| Pankaj | Russia |
| Gukesh | Canada |
| Vimal | Denmark |

**21.** Each of five persons Rajini, Lokesh, Pankaj, Gukesh, and Vimal is from a different country viz- India, China, Denmark, Canada, and Russia but not necessarily in the same order. Lokesh is from China. Neither Vimal nor Rajini is from Russia. Rajini is from neither Denmark nor Canada. Gukesh is from either India or Canada. Who is from Denmark?

(1) Vimal (2) Pankaj

(3) Rajini (4) Pankaj or Vimal

The final arrangement is as follows.

|  |  |
| --- | --- |
| Person | Fruit |
| P | Apple |
| Q | Grapes |
| R | Guava |
| S | Mango |
| T | Orange |
| U | Banana |

**22.** Six persons P, Q, R, S, T, and U are like a different   
fruit – Banana, Apple, Guava, Grapes, Mango and Orange, but not necessarily in the same order. Q likes either Grapes or Guava. S likes Mango. R likes neither Apple nor Banana. U does not like Apple. Either P or T likes Orange. T does not like Apple.   
R does not like Grapes. Which fruit does U like?

(1) Grapes (2) Banana (3) Guava (4) Orange

The final arrangement is as follows.

|  |  |  |
| --- | --- | --- |
| Person | City | Car |
| A | Lucknow | Honda |
| B | Delhi | Maruthi |
| C | Chennai | Mahindra |
| D | Patna | Hyundai |
| E | Hyderabad | Fortuner |

**23.** Five persons A, B, C, D, and E live in a different city viz- Chennai, Hyderabad, Lucknow, Delhi and Patna, but not necessarily in the same order. Each has   
a different car among Maruthi, Mahindra, Honda, Hyundai and Fortuner cars but not necessarily in   
the same order. B lives in Delhi and has a Maruthi car.   
E lives in Hyderabad. D has a Hyundai car. The one who lives in Chennai has a Mahindra car. A lives in Lucknow and does not have Fortuner. Who has a Honda car?

(1) A

(2) C

(3) E

(4) The one who lives in Patna

The final arrangement is as follows.

|  |  |  |
| --- | --- | --- |
| **Person** | **Game** | **Color** |
| Roja | Badminton | Black |
| Teja | Tennis | Pink |
| Kapil | Cricket | Blue |
| Gopal | Hockey | White |
| Beem | Volleyball | Red |
| Sushma | Football | Green |

**24.** Each ofsix persons Roja, Teja, Kapil, Gopal, Beem, and Sushma is playing a different game, and each likes a different color. Teja likes pink and does not play Cricket. Gopal does not like blue and plays Hockey. The one who likes black color plays Badminton. Beem does not play Tennis and likes Red. Sushma plays Football and likes Green.   
Roja likes neither blue nor white. Kapil neither plays Volleyball nor Tennis. Who likes black?

(1) Kapil (2) Gopal (3) Beem (4) Roja

**25.** In a row of students, Raghav is 104th from the first and 56th from the last then how many students are there in the row?

(1) 159 (2) 182 (3) 149 (4) 187

**26.** In class of students, Laxmi ranks 20th from the top. There are 22 students whose ranks are between   
the ranks of Laxmi and Rani. If Rani’s rank is   
30th from the bottom, then how many students are there in the class?

(1) 79 (2) 80 (3) 72 (4) 50

**27.** If the total number of students in a class is 50.   
Mahi got the 26th rank from the top, then what is   
the rank of Mahi from the bottom?

(1) 25 (2) 28 (3) 30 (4) 32

**28.** In a class of students, Aparna’s rank from the top is 23rd, and Harshitha’s rank from the bottom is 18th. There are 16 students ranked between Aparna and Harshitha. How many students are there in the class?

(1) 57 (2) 52

(3) 23 (4) Cannot be determined

**29.** In a university ranking list Mohan’s rank is 15th from the top and Neeraj’s rank is 19th from the bottom.   
If they interchange their ranks, then Mohan’s ranks will become 26th from the top. Find the total number of students in the university ranking list.

(1) 35 (2) 46 (3) 44 (4) 45

**30.** In a school, there are 180 students. The ratio of girls to boys is 1:8. Mounika is standing 16th from the front and 9 girls are there ahead of her. How many boys are standing behind her?

(1) 120 (2) 154 (3) 144 (5) 132