

**EXERCISE**

1. Mohan and Suresh study in the same class. Mohan has secured more marks than Suresh in the terminal examination. Suresh's rank is seventh from top among all the students in the class. Which of the following is definitely true?  
(a) Mohan stood first in the terminal examination.  
(b) There is at least one student between Mohan and Suresh in the rank list.  
(c) There are at the most five students between Mohan and Suresh in the rank list.  
(d) Suresh is five ranks lower than Mohan in the rank list.
2. Fifteen children are standing in a row facing north. Ravi is to the immediate left of Prabha and is eighth from the left end. Arjun is second from the right end. Which of the following statements is not true?  
(a) Prabha is 7th from right end.  
(b) There are four children between Prabha and Arjun.  
(c) There are five children between Ravi and Arjun.  
(d) Arjun is 13th from the left end.
3. Rajnish is older than Rajesh and Raman. Ramesh is older than Rajesh but younger than Rajeev. Raman is older than Rajeev. Who among them is oldest?  
(a) Rajeev (b) Rajesh  
(c) Rajnish (d) Ramesh
4. If 'P' means 'division', 'T' means 'addition', 'M' means 'subtraction', and 'D' means 'multiplication' then what will be the value of the following expression?  
 $12 \text{ M } 45 \text{ D } 28 \text{ P } 7 \text{ T } 15 = ?$

- (a) -15 (b) 45  
(c) -30 (d) None of these
5. If the positions of the first and the fifth digits of the number 83721569 are interchanged, similarly, the positions of the second and the sixth digits are interchanged, and so on, which of the following will be the third from the right end after the rearrangement?  
(a) 6 (b) 3  
(c) 2 (d) 7
6. In a class some students play cricket only, some other students play football only and remaining  $\frac{1}{6}$ th students play both cricket and football. Which of the following statements is definitely true?  
(a) Two-thirds of the students play cricket.  
(b) Three-fourths of the students play football only.  
(c) One-thirds of the students play football only.  
(d) None of these
7. If the positions of the first and the sixth digits of the group of digits 5904627813 are interchanged, similarly, the positions of the second and the seventh are interchanged, and so on, which of the following will be the fourth from the right end after the rearrangement?  
(a) 4 (b) 9 (c) 1 (d) 0
8. In a row of boys Akash is fifth from the left and Nikhil is eleventh from the right. If Akash is twenty-fifth from the right then how many boys are there between Akash and Nikhil?  
(a) 14 (b) 13 (c) 15 (d) 12
9. The positions of the first and the sixth digits in the number 3597280164 are interchanged. Similarly, the positions of the second and the seventh digits are interchanged, and so on.

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- Which of the following will be the fourth digit from the right end after the rearrangement?  
(a) 5                      (b) 3                      (c) 9                      (d) 4
10. In a shop, there were 4 dolls of different heights M, N, O and P. 'P' is neither as tall as 'M' nor as short as 'O'. 'N' is shorter than 'P' but taller than 'O'. If Anvi wants to purchase the tallest doll, which one should she purchase?  
(a) Either M or P                      (b) Either P or N  
(c) Only P                      (d) Only M
11. Ketan takes casual leave only on first working day of every month. The office has weekly offs on Saturday and Sunday. In a month of 30 days, the first working day happened to be Tuesday. What will be the day for his next casual leave?  
(a) Wednesday                      (b) Thursday  
(c) Friday                      (d) Monday
12. Abhay gave an application for a new ration card to the clerk on Monday afternoon. Next day was a holiday. So the clerk cleared the papers on the next working day on resumption of duty. The senior clerk checked it on the same day but forwarded it to the head clerk on next day. The head clerk decided to dispose 'the case on the subsequent day. On which of the following days was the case put up to the head clerk by the senior clerk?  
(a) Wednesday                      (b) Thursday  
(c) Friday                      (d) Saturday
13. Five newly born babies were weighed by the doctor. In her report, she stated that child A is lighter than child 8, child C is lighter than D and child B is lighter than child D, but heavier than child E. Which child is the heaviest?  
(a) E                      (b) D  
(c) C                      (d) A
14. If it is possible to make a number which is perfect square of a two-digit odd number with the second, the sixth and ninth digits of the number 187642539 which of the following is the digit in the Unit's place of that two-digit odd number  
(a) 1                      (b) 7  
(c) 9                      (d) None of these
15. A, B, C, D and E. when arranged in descending order of their weight from top, A becomes third, E is between D and A, C and D are not at the top. Who among them is the second?  
(a) C                      (b) B  
(c) E                      (d) Data inadequate
16. There are seven persons up on a ladder, A, B, C, D, E, F and - G (not in that order). A is further up than E but is lower than C. B is in the middle. G is between A and B. E is between B and F. If F is between E and D, the person on the bottom step of the ladder will be (a) B  
(b) F  
(c) D                      (d) F
17. Rakesh is on 9th position from upwards and on 38th position from downwards in a class. How many students are in class?  
(a) 47                      (b) 45  
(c) 46                      (d) 48
18. Sarita is on 11th place from upwards, in a group of 45 girls. If we start counting from downwards, what will be her place?  
(a) 36<sup>th</sup>                      (b) 34<sup>th</sup>  
(c) 35<sup>th</sup>                      (d) Cannot be determined
19. Raman is 9th from downwards in a class of 31 students. What will be his position from upwards?  
(a) 21st                      (b) 22nd  
(c) 23rd                      (d) 24th
20. Some boys are sitting in a line. Mahendra is on 17th place from left and Surendra is on 18th

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- place from right. There are 8 boys in between them. How many boys are there in the line?
- (a) 43 (b) 42  
(c) 41 (d) 44
21. In a line of boys, Ganesh is 12<sup>th</sup> from the left and Rajan is 15<sup>th</sup> from the right. They interchange their positions. Now, Rajan is 20<sup>th</sup> from the right. What is the total no. of boys in the class?
- (a) 30 (b) 29  
(c) 32 (d) 31
22. In a queue, Vijay is fourteenth from the front and Jack is seventeenth from the end, while Mary is in between Vijay and Jack. If Vijay be ahead of Jack and there be 48 persons in the queue, how many persons are there between Vijay and Mary?
- (a) 8 (b) 7  
(c) 6 (d) 5
23. Malay Pratap is on 13<sup>th</sup> position from the starting and on 17<sup>th</sup> position from the end in his class. He is on 8<sup>th</sup> position from the starting and on 13<sup>th</sup> position from the end among the students who passed. How many students failed?
- (a) 7 (b) 8  
(c) 9 (d) Cannot be-determined
24. In a row of students, Ramesh is 9<sup>th</sup> from the left and Suman is 6<sup>th</sup> from the right. When they both interchange their positions then Ramesh will be 15<sup>th</sup> from the left. What will be the position of Suman from the right?
- (a) 12<sup>th</sup> (b) 13<sup>th</sup>  
(c) 15<sup>th</sup> (d) 6<sup>th</sup>
25. There are five steel boxes labelled A, B, C, D and E. E is heavier only than A. C is heavier than A and E and heavier than B which is not the heaviest. Which of the following boxes is the heaviest?
- (a) A (b) B  
(c) C (d) D
26. P, Q, R and S are four men. P is the oldest but not the poorest. R is the richest but not the oldest. Q is older than S but not than P or R. P is richer than Q but not than S. The four men can be ordered (descending) in respect of age and richness, respectively, as
- (a) PQRS, RPSQ (b) PRQS, RSPQ  
(c) PROS, RSQP (d) PRSQ, RSPQ
27. In a class of 45 students, among those students who passed Anmol secured 11<sup>th</sup> position from upwards and 15<sup>th</sup> from downwards. How many students failed?
- (a) 19 (b) 20  
(c) 15 (d) 18
28. In a row at a bus stop, A is 7<sup>th</sup> from the left and B is 9<sup>th</sup> from the right. Both of them interchange their positions and then A becomes 11<sup>th</sup> from the left. How many people are there in that row?
- (a) 18 (b) 19  
(c) 20 (d) 21
29. In a row of boys facing the North, A is sixteenth from left end and C is sixteenth from the right end. B, who is fourth to the right of A, is fifth to the left of C in the row. How many boys are there in the row?
- (a) 39 (b) 40  
(c) 41 (d) 42
30. In a class of 60, where girls are twice that of boys, Kamal ranked seventeenth from the top. If there are 9 girls ahead of Kamal, how many boys are after him in rank?
- (a) 3 (b) 7  
(c) 12 (d) 23

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31. Priya is taller than Tiya and shorter than Siya. Riya is shorter than Siya and taller than Priya. Riya is taller than Diya, who is shorter than Tiya. Arrange them in order of ascending heights.
- (a) Priya - Siya - Riya - Tiya - Diya  
(b) Riya - Siya - Priya - Diya - Tiya  
(c) Siya - Riya - Priya - Tiya-Diya  
(d) Siya - Priya - Riya - Diya-Tiya
32. In a queue, A is eighteenth from the front while B is sixteenth from the back. If C is twentieth from the front and exactly in the middle of A and B, then how many person are there is the queue?
- (a) 45 (b) 46  
(c) 47 (d) 48
33. In a row of 21 girls, when monika was shifted by four place towards the right, she became 12th from the left end. was her earlier positions from the right end of the row
- (a) 9th (b) 10th  
(c) 11<sup>th</sup> (d) 14th
34. Gita is prettier than Sita but not as pretty as Rita. Then,
- (a) Sita is not as pretty as Gita.  
(b) Sita is prettier than Rita.  
(c) Rita is not as pretty as Gita.  
(d) Gita is prettier than Rita.
35. Ram and Sham are ranked 13th and 14th respectively is a class of 23. What are their ranks from the last respectively?
- (a) 10th: 11th (b) 11th; 12th  
(c) 11th; 10th (d) None of these
36. Five coaches P, L, R, M, O are in a row. R is to the right of M and left of P, L is to the right of P and left of O. Which coach is in the middle?
- (a) P (b) L  
(c) R (d) O
37. On one side of a street are even numbers and on the other side are odd numbers. No. 1 is exactly in front of No. 2. My House is No. 9. From my house, a man comes up from No.2 and knocks at the door, five doors beyond the house in front of me. What is the No. of that house?
- (a) 18 (b) 20  
(c) 22 (d) 26
38. Five policemen are standing in a row facing south. Shekhar is to the immediate right of Dhanush. Bala is between Basha and Dhanush. David is at the extreme right end of the row. Who is standing in the middle of the row?
- (a) Bala (b) Basha  
(c) Shekhar (d) Dhanush

**ANSWER KEY**

1	(a)	6	(d)	11	(b)	16	(c)	21	(d)	26	(b)	31	(c)	36	(a)
2	(d)	7	(b)	12	(b)	17	(c)	22	(b)	27	(b)	32	(c)	37	(b)
3	(c)	8	(b)	13	(b)	18	(c)	23	(c)	28	(b)	33	(d)	38	(d)
4	(d)	9	(a)	14	(b)	19	(c)	24	(a)	29	(b)	34	(a)		
5	(b)	10	(d)	15	(a)	20	(a)	25	(d)	30	(c)	35	(c)		

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## HINTS & EXPLANATION

1. (a)
2. (d) 8th 9th 14th  
Ravi Prabha Arjun
3. (c) Rajnish > Rajesh, Raman... (i)  
Rajeev > Ramesh > Rajesh... (ii)  
Raman > Rajeev... (iii)  
Combining all, we get  
Rajnish > Raman > Rajeev > Ramesh > Rajesh
4. (d)  $12 - 45 \times 28 \div 7 + 15$   
 $= 12 - 45 \times 4 + 15 = 27 - 180 = -153$
5. (b) New arrangement of numbers is as follows:  
15698372  
Hence, third number from right end is 3.
6. (d) We can't find the proportion of those students out of the total, students who play only cricket. Similarly, we can't find the proportion of those students out of the total students who play only football. But  $\frac{5}{6}$ th of the total strength play either cricket only or football only.
7. (b) In the original group of digits '7' is fourth from the right, which is interchanged with '9'. The new series is 2781359046.
8. (b) There are  $(25 - 11 - 1) = 13$  boys between Akash and Nikhil.
9. (a) After interchanging the number becomes as follows:  
80164 3 5 9 7 2  
Hence, the fourth digit from the right end is 5.
10. (d) The correct order of dolls according to descending order of their heights are:  
M > P > N > O  
Therefore, Anvi will purchase the doll M.
11. (b) If the first working day happened to be Tuesday then 8th, 15th, 22nd and 29th of the month will be Tuesday. Hence, the last day of

the month will be Wednesday (since, number of days in the month is 30). Thus, the next casual leave will be on Thursday.

12. (b)

(i) Submitted application form	:	Monday
(ii) Holiday	:	Tuesday
(iii) Clearance from clerk	:	Wednesday
(iv) Clearance from senior clerk	:	Wednesday
(v) Submitted to the head clerk	:	Thursday
13. (b) Even if we cannot determine the exact sequence of the weights of the children, we can conclude on the basis of the information provided that D is the heaviest.
14. (b) The specified digits are 8, 2 and 9. Now, we know a perfect square number does not have 8 and 2 at unit's place. Therefore, we can make only two three-digit numbers from it, i.e., 829 and 289. Among these two numbers, 289 is a perfect square number, i.e., square of 17. Thus, unit's digit is 9 and ten's digit is 8.
15. (a) \_\_\_\_\_  
\_\_\_\_\_A\_\_\_\_\_

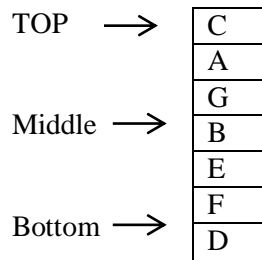
DBA \_\_\_\_\_ [It is not possible as D is not at the top.]

\_\_\_\_\_AED

BCAED

Hence, C is second among them.
16. (c)

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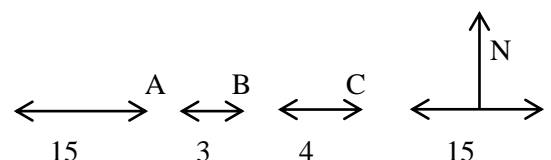
D is at the bottom step of the ladder.

17. (c) Total students  
 $= [\text{Rakesh's position from upwards} + \text{Rakesh's position from downwards}] - 1$   
 $= [9 + 38] - 1 = 46$
18. (c) Sarita's place from downwards  
 $= [\text{Total girls} - \text{Sarita's place from upwards}] + 1 =$   
 $[45 - 11] + 1 = 35^{\text{th}}$
19. (c) Raman's position from upwards  
 $= [\text{Total students} - \text{Raman's position from down}] + 1$   
 $= [31 - 91] + 1 = 23^{\text{rd}}$
20. (a) Total boys  
 $= [\text{Mahendra's place from left} + \text{Surendra's place from right}] + [\text{Boys between them}]$   
 $= [17 + 18] + 8 = 43$
21. (d) Total students  
 $= [\text{First position of Ganesh} + \text{Second position of Rajan}] - 1$   
 $= [12 + 20] - 1 = 31$
22. (b) Number of persons between Vijay and Jack  
 $= 48 - (14 + 17) = 17$   
 Now, Mary lies in middle of these 17 persons i.e., at the eighth position.  
 So, number of persons between Vijay and Mary = 7.
23. (c) Total students  
 $= [\text{Malay's place from starting} + \text{Malay's place from end}] - 1$   
 $= [13 + 17] - 1 = 29$

Number of passed students = [Malay's place from starting + Malay's place from end] - 1  
 $= [8 + 13] - 1 = 20$

∴ Number of failed students =  $29 - 20 = 9$

24. (a) Position of Suman from right  
 $= [\text{Difference of Ramesh's position} + \text{First position of Suman}]$   
 $= [(15 - 9) + 6] = 12^{\text{th}}$
25. (d)  $D > B > C > E > A$
26. (b)  $Q > S, P > Q, R > Q$   
 Age: As,  $Q > S, P > Q, R > Q$   
 Also, P is the oldest.  
 ∴  $P > R > Q > S$   
 Richness: As,  $P > Q, S > P$   
 Also R is the richest.  
 ∴  $R > S > P > Q$
27. (b) Failed Students.  
 $= [\text{Total students}] - [(\text{Anmol's position from upwards}) + (\text{Anmol's position from downwards}) - 1]$   
 $= 45 - [(11 + 15) - 1] = 20$
28. After interchanging their positions, position of A left = 11  
 then positions of A from right = 9.  
 ∴ The total no. of people in the row  
 $= (9 + 11) - 1 = 19$ .
29. (b)



Clearly, according to the given conditions, there are 15 boys to the left of A, as well as to the right of C. Also, lies between A and C such that there are 3 boys between A and B and 4 boys between



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- B and C. So, number a boys in the row =  $(15 + 1 + 3 + 1 + 4 + 1 + 15) = 40$ .
30. (c) Let the number of boys be  $x$ .  
Then, number of girls =  $2x$ .  
 $\therefore x + 2x = 60$  or  $3x = 60$  or  $x = 20$ .  
So, number of boys = 20 and number of girls = 40. Number of students behind Kamal in rank  $(60 - 17) = 43$ .  
Number of girls ahead of Kamal in rank = 9.  
Number of girls behind Kamal in rank =  $(40 - 9) = 31$  Number of boys behind Kamal in rank =  $(43 - 31) = 12$ .
31. (c) From statement (1) when we arrange them in order ascending heights.  
 $Siya > Priya > Tiya$  ....(i)  
Similarly from statement (2)  
 $Siya > Riya > Priya$  ....(ii)  
Similarly from statement (3)  
 $Riya > Tiya > Diya$  ....(iii)  
From (i), (ii) and (iii) if they are arranged in order ascending heights.  
 $Diya < Tiya < Priya < Riya < Siya$   
Option (c) states the descending order correctly and hence, should be the correct option.
32. (c) A is 18th from front and C is 24th  
Number of persons between A and C = 6.  
Since C is exactly in middle of A and B, so number persons between C and B = 6.
- $\begin{array}{ccccccc} & A & & C & & B & \\ \leftarrow & \rightarrow & \leftarrow & \rightarrow & \leftarrow & \rightarrow & \leftarrow \end{array}$   
 $\begin{array}{ccccccc} & 17 & & 6 & & 6 & & 15 \end{array}$
- $\therefore$  Number of persons in the queue  
=  $(17 + 1 + 6 + 1 + 6 + 1 + 15) = 47$ .

33. (d) The change of place by Monika can be shown as under.
- $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ M \ 13 \ 14 \ 15 \ 16 \ 17 \ 18 \ 19 \ 20 \ 21$
- Clearly, Monika's earlier position was 8th from the left and 14th from the right end.
34. (a)  $Rita > Gita > Sita$
35. (c) Rank of Ram from the last =  $23 - 13 + 1 = 11$  and Rank of Shyam from the last =  $23 - 14 + 1 = 10$
36. (a) Left  $\bullet \text{---} | \text{---} | \text{---} | \text{---} | \text{---} \bullet$  Right  
 $\begin{array}{ccccc} M & R & P & L & O \end{array}$   
Hence, P coach is in the middle of the five coaches.
37. (b)
- My Home

↓

1	3	5	7	9	11	13	15	17	19	21
---	---	---	---	---	----	----	----	----	----	----

Man from no. 2

↓

5 houses beyond my hose

↓

2	4	6	8	10	12	14	16	18	20	22
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- Hence, 20 is the number of that house.
38. (d) Standing Arrangement: (Facing South)
- $\begin{array}{ccccccc} \text{Right} & & & & & & \text{Left} \\ \text{End} & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \text{End} \\ & \text{David} & \text{Shekhar} & \text{Dhanush} & \text{Bala} & \text{Basha} & \end{array}$
- Hence, Dhanush is standing at the middle of the row.



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