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Office Assistants

Prelims & Mains Exams 2025-26

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CONTENTS

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PAPER 1

IBPS RRB Clerk Mains Solved Paper 2024

REASONING ABILITY

Directions (1-5): Study the following information carefully to answer the given questions.

Six persons, M, N, O, P, Q, and R, live in a three-storey building. The ground floor is numbered as 1, the floor just above it as 2, and the topmost floor as 3. Each floor has two flats, flat-1 and flat-2. Flat-1 of any floor is to the west of flat-2 of the same floor. Each person likes a different fruit: apple, banana, cherry, mango, orange, and watermelon. All information is not necessarily in the same order.

Q does not like Orange. M lives two floors above the one who likes Watermelon but both live in different numbered flat. One floor gap between P and the one who likes Orange. N lives north-east of the one who likes Orange. O lives below the one who likes Banana and above Q. M neither likes Mango nor Banana. O and N do not like Apple. The persons who live in flat-1 do not like Cherry.

1. Who lives on the topmost floor in flat-2?

(*a*) M
(*b*) The one who likes Banana
(*c*) O
(*d*) The one who likes Apple
(*e*) Q

2. Which of the following is true?

I. O lives north-west of Q
II. R does not like Orange
III. P lives above the one who likes Mango

(*a*) Both I and III
(*b*) Only II
(*c*) Both II and III
(*d*) Only I
(*e*) All I, II and III

3. How many floors gap between the ones who like Orange and Banana?

(*a*) None
(*b*) One
(*c*) Either One or none
(*d*) As same as between O and R
(*e*) As same as between P and N

4. Which fruit does P like?

(*a*) Cherry (*b*) Orange (*c*) Apple (*d*) Banana
(*e*) Mango

5. Who likes Cherry and where does the person live?

(*a*) O, flat-1 of the second floor
(*b*) R, flat-2 of the third floor
(*c*) Q, flat-1 of the second floor
(*d*) P, flat-1 of the first floor
(*e*) N, flat-2 of the second floor

6. In the word 'EXHAUSTION', how many pairs of the letters have the same number of letters between them (both forward and backward direction) in the word as in the alphabet?

(*a*) Four (*b*) Two (*c*) One (*d*) Three
(*e*) More than four

Directions (7-9): In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

7. Statements:

Only a few Pen is Book.
All Book is Paper.
No Notebook is Pen.

Conclusions:

I. Some Notebook is Book.
II. Some Paper is not Notebook.
III. All Pen being Paper is a possibility.

(*a*) Both II and III follows
(*b*) Either I or II follows
(*c*) Only III follows
(*d*) None follows
(*e*) Only II follows

8. Statements:

Only Movie is Cinema.
Only a few Movie is Drama.
Some Drama is not Documentary.

Conclusions:

I. Some Movie being Documentary is a possibility.
II. All Drama being Documentary is a possibility.
III. No Cinema is Documentary.

(*a*) Both II and III follows
(*b*) Only III follows
(*c*) Either I or II follows
(*d*) None follows
(*e*) Both I and III follows

9. Statements:

Only a few Car is Truck.
All Truck is Vehicle.
No Bike is Car.

Conclusions:

I. Some Vehicle being Bike is a possibility.
II. No Truck is Bike.
III. All Car being Truck is a possibility.

(*a*) Both II and III follows
(*b*) Either I or II follows
(*c*) Only III follows
(*d*) Only I follows
(*e*) Only II follows

Directions (10-14): Study the following information carefully to answer the given questions.

Six colleagues—P, Q, R, S, T and U—stand in a row facing north at positions 1 through 6 (left to right). Their ages are 24, 28, 32, 36, 40 and 44 years (all different).

Q is 28 and stands immediately to the left of the person who is 32.

The oldest (44) stands at one end, the youngest (24) stands at the other end.

R is only older than S but younger than T.

P stands between R and U (not necessarily adjacent).

U is 12 years younger than T.

10. Who sits at the third position?

(*a*) P (*b*) R (*c*) U (*d*) S

(*e*) T

11. What is R's age?

(*a*) 24 (*b*) 32 (*c*) 36 (*d*) 40

(*e*) Either '*c*' or '*d*'

12. Which person is the youngest?

(*a*) P (*b*) Q (*c*) R (*d*) S

(*e*) U

13. Who stands immediately to the right of Q?

(*a*) P (*b*) R (*c*) S (*d*) T

(*e*) U

14. Which of the following statements is TRUE?

I. T is older than R.

II. P is 4 years older than U.

III. Q stands at one of the ends.

(*a*) Only I and II (*b*) Only II and III

(*c*) Only I and III (*d*) All three

(*e*) Only I

Directions (15-19): Study the following information carefully to answer the given questions.

Six colleagues — A, B, C, D, E, F — are seated in a row facing north in positions 1 (left end) through 6 (right end). Each was born in a different month: January, February, March, April, May, June (no two share the same birth-month).

1. The person born in January sits at one end of the row.
2. B sits third to the right of the person born in February.
3. C, whose birthday is in April, sits immediately to the left of D.
4. E sits somewhere between the person born in January and the person born in March.
5. F, born in June, sits immediately to the right of B.
6. The person born in May sits second from the right.

15. Who occupies the 4th position in the row?

(*a*) A (*b*) B (*c*) C (*d*) D

(*e*) E

16. Which colleague was born in January?

(*a*) A (*b*) B (*c*) C (*d*) E

(*e*) F

17. Who sits immediately to the left of D?

(*a*) A (*b*) B (*c*) C (*d*) E

(*e*) F

18. What is D's birth-month?

(*a*) January (*b*) February (*c*) March (*d*) April

(*e*) May

19. Which of the following statements is TRUE?

I. F sits at one end.

II. C's birth-month is after E's birth-month.

III. B sits immediately to the right of D.

(*a*) Only I & II (*b*) Only I & III

(*c*) Only II & III (*d*) All three

(*e*) None

Directions (20-24): Study the following information carefully to answer the given questions.

Nine colleagues — A, B, C, D, E, F, G, H, I — sit in a single row of nine chairs, numbered 1 through 9 from left to right. Some face north and some face south.

1. C sits at one end and faces south.
2. B sits third to the left of D, and B and D face the same direction.
3. A sits second to the right of C, and face opposite direction.
4. H faces north and sits somewhere between B and D.
5. D faces south and sits second from one end.
6. G faces south and sits third to the right of E.
7. E and F are immediate neighbours and face opposite directions.
8. I faces the same direction as A and sits third to the left of G.

20. Who sits at position 6?

(*a*) E (*b*) F (*c*) G (*d*) B

(*e*) I

21. Which pair both face north?

(*a*) B, D (*b*) C, F (*c*) I, A (*d*) G, E

(*e*) A, F

22. Who sits immediately to the right of E?

(*a*) A (*b*) B. B (*c*) D (*d*) F

(*e*) G

23. Who sits third to the left of D?

(*a*) A (*b*) B (*c*) C (*d*) I

(*e*) G

24. Which of the following is TRUE?

I. G sits to the right of A.

II. H faces the same direction as E.

III. I sits immediately to the right of A.

(*a*) Only I & II (*b*) Only I & III

(*c*) Only II & III (*d*) All three

(*e*) None

Directions (25-29): Study the following information carefully to answer the given question.

G # A 5 K @ I T $ O P R 2 % U L 9 D & M S E 4 * Q X Z 7 N ! C Y 6

25. How many consonants in the above arrangement are immediately preceded by a symbol and immediately followed by a vowel?

(*a*) One (*b*) Two (*c*) Three (*d*) Four

(*e*) None

26. How many digits in the sequence are immediately preceded and immediately followed by letters (vowel or consonant)?

(*a*) Two (*b*) Three (*c*) Four (*d*) Five

(*e*) Six

27. If all the symbols and numbers of the above arrangement are dropped then which of the following will be the tenth element from the left end?

(*a*) D (*b*) U (*c*) L (*d*) O

(*e*) R

ENGLISH LANGUAGE

Directions (41-45): In the question given below, four sentences are given. Choose the sentence that is grammatically and/or contextually incorrect. If all the sentences are correct, mark 'All are correct' as your answer.

41. (*a*) Besides routinely discarding procedures, bulldozer governance is deeply associated with cynicism about all forms of accountability.

(*b*) Stereotypes influence our thoughts and actions towards others, leading to discrimination and exclusion.

(*c*) The Information and Broadcasting minister has asserted that piracy is like cancer and this legislation will uproot it.

(*d*) The Kohinoor bears testimony with the rampant loot and pillage that marked British rule in India.

(*e*) All are correct

42. (*a*) The surging retail costs of fruit could intensify food inflation, posing a significant challenge to both consumers as well as the economy.

(*b*) Their performance has not always been outstanding, but they serve other purposes too.

(*c*) The government's attitude towards the premier award for young scientists does great disservice to the Prime Minister's vision.

(*d*) Unfortunately, the once globally recognised intellectual and cultural activity of reading is fast becoming non-existent in the country.

(*e*) All are correct

43. (*a*) Educational institutions would be failing in their duty if they do not take cognisance of these worrisome developments.

(*b*) The whole episode exposed how shallow is the opposition in every aspect.

(*c*) When you are discouraged, make a little positive effort and your attitude will remarkably improve.

(*d*) Efforts to curb ragging require regulation, persuasion and the support of students.

(*e*) All are correct

44. (*a*) His voice was deceptive innocent, and she was led right into the trap.

(*b*) When the level of pollution worsens, government actions tend to become more stringent.

(*c*) Every time you measure an object's velocity, or its momentum, or how it experiences time, it's always in relation to something else.

(*d*) North Korea's recent weapons tests aims to advance its nuclear arsenal and win greater concessions in future diplomacy.

(*e*) All are correct

45. (*a*) The Netherlands is known for its picturesque windmills, while Maldives boast stunning coral reefs and white sandy beaches.

(*b*) The Netherlands is renowned worldwide for its picturesque windmills, which stand as iconic symbols of the country's rich history and engineering ingenuity.

(*c*) These charming structures not only provide a glimpse into the past but also continue to play a vital role in modern Dutch life.

(*d*) The Maldives proudly showcase its natural treasures – the stunning coral reefs and pristine white sandy beaches that have captivated the hearts of travelers for generations.

(*e*) All are correct

Directions (46-55): Read the following passage and answer the questions accordingly. Some of the words have been given in bold.

PARAGRAPH 1:

Today's global financial ecosystem is characterized by cross-border capital flows and a global investor base. Countries offer multiple incentives to attract the best companies to list their shares and foreign investors to invest and create vibrant capital markets. Issuers prefer jurisdictions that have simpler compliance requirements, and foreign investors prefer countries that allow the free flow of capital. Take the recent example of Softbank-owned ARM Ltd., the world's leading chip designer. The London-based company chose a primary New York listing despite intense efforts by the UK prime minister. As per the Financial Times, this decision was due to the complex regulatory landscape in the UK, which has also led many UK companies to flee to greener and less **onerous** pastures like New York. While governments do their best to attract capital, the over-cautiousness or zealousness of regulators may play spoilsport. Sometimes, regulators go overboard, going beyond the legislative intent.

PARAGRAPH 2:

It is worth noting that conflicts or disagreements between regulatory bodies and legislative intent or government policy can occur in any regulatory environment. While governments set policies and legislative frameworks, regulatory bodies often operate independently to enforce and interpret the laws. Differences in interpretation, evolving market conditions or emerging challenges can lead to conflicts or mismatches between regulations and the original intent or policy direction. One comes across such instances in India as well. The report submitted by the Supreme Court-appointed Committee to probe certain allegations against the Adani Group and suggest changes in the legal framework provides insight into the **dichotomy** between the legislative intent and the actions of the Securities and Exchange Board of India (SEBI). On several occasions, the Committee has stated in the report that the SEBI regulations have contradicted the stated position despite the legislative intent being otherwise, and there must be coherent enforcement. For instance, in the case of the norms governing the minimum public shareholding, there is sufficient compliance once disclosure of ultimate beneficial ownership is made. Despite this, as noted below, the SEBI has taken a different stance.

PARAGRAPH 3:

The requirement to disclose the last natural person above every person owning any economic interest in the FPI was discontinued in 2018, according to a recommendation by a SEBI-appointed working group that consulted with the Reserve Bank of India and the Ministry of Corporate Affairs. Similarly, the "opaque structure" provisions in the regulations were deleted in 2019 as declarations made under the PMLA constitute sufficient compliance. The Committee notes the reason behind this change is that if every FPI was required to provide information about beneficial owners in respect of owners holding more than 10 per cent, there was no need to have_____(I)_____ of every owner of the FPI.

PARAGRAPH 4:

India competes globally to attract investments from foreign investors. Our policy so far has encouraged FPI participation in our stock markets. FPIs assess risks such as changes in taxation policies, capital controls, repatriation restrictions or shifts in regulatory frameworks to make their investment decisions. (II) They rely on **informed** (1) and **transparent** (2) regulatory frameworks to make **stable** (3) investment **decisions** (4). In case of uncertainty, they may become cautious and hesitant to commit their funds. FPIs prefer India over countries with unstable governments or opaque capital market regimes for this exact reason.

46. As per the information provided in the passage, which of the following factors attract companies to list their shares in a particular jurisdiction?

I. Complex regulatory landscape

II. Simpler compliance requirements

III. Restrictions on the flow of capital

of number of Kiwi to Orange sold by vendor 'D' is 5 : 1 and the total number of sold fruits by him is equal to the total number unsold fruits by vendor 'B', then find the total collection of vendor 'D' by selling all the Kiwis.

(*a*) 650 (*b*) 700 (*c*) 750 (*d*) 900

(*e*) 850

108. If the average number of unsold fruits (Kiwi+Orange) by vendors 'B', 'C', and "E' together is 580 and the total number of unsold Kiwis by vendor 'E' is 248, then find the number of unsold Oranges by vendor 'E'.

(*a*) 552 (*b*) 560 (*c*) 572 (*d*) 580

(*e*) 592

109. The total number of oranges sold by all three vendors is what percentage of the total number of available fruits (Kiwi + Orange) with all three vendors?

(*a*) 25% (*b*) 30% (*c*) 45% (*d*) 35%

(*e*) 40%

110. If vendor 'F' sold 70% more Oranges than that by vendor 'A' and the number of Kiwis sold by vendor 'F' is 66.66% of the total number of fruits (Kiwi + Orange) sold by him, then find the total number of fruits sold by vendor 'F'.

(*a*) 1490 (*b*) 1520 (*c*) 1470 (*d*) 1500

(*e*) 1530

111. Anil takes '*a*' fewer days than Beena to complete a task. They start the task together, but after '*b*' days, Anil leaves, leaving Beena to finish the rest of the work on her own. If the ratio of work accomplished by Beena and Anil is 3 : 1, for how many days did Beena work alone?

(*a*) $\left(\frac{3a}{4}\right)+b$ (*b*) $\left(\frac{5a}{4}\right)+2b$

(*c*) $\left(\frac{5a}{4}\right)-b$ (*d*) $\left(\frac{3a}{4}\right)+2b$

(*e*) None of the above

112. Find the wrong term in the following series.

1200, 1188, 1164, 1116, 1020, 828, 484

(*a*) 1200 (*b*) 1188 (*c*) 1020 (*d*) 484

(*e*) 1116

Directions (113-116): In the following questions, two statements are numbered as Quantity I and Quantity II. On solving these statements, we get quantities I and II respectively. Solve both quantities and choose the correct option.

(*a*) Quantity 1 > Quantity 2

(*b*) Quantity 1 ≥ Quantity 2

(*c*) Quantity 1 < Quantity 2

(*d*) Quantity 1 ≤ Quantity 2

(*e*) Quantity 1 = Quantity 2

113. The speed of a 400 meters long train is 5 km per hour more than that of a truck. If the turck and train travel in opposite directions, then the truck can cross train completely in 1 minute. (Neglect the length of truck)

Quantity I: What is the speed of the train?

Quantity II: What will be the speed of the truck when it is increased by 50%?

114. Ram, Shyam and Dev earned a profit of Rs. 72,000. Shyam and Dev invested Rs. 40,000 and Rs. 50,000.

Quantity I: Ram invested Rs.10,000 less than Shyam, how much profit Ram has earned?

Quantity II: If Ram and Shyam invested an equal amount of Rs. 40,000, then how much is Ram's share if profit increased to Rs. 78,000?

115. Quantity I: A certain sum of money amounts to Rs. 5800 at 4% per annum in 4 years. In how many years will it amount to Rs. 8000 at the same rate?

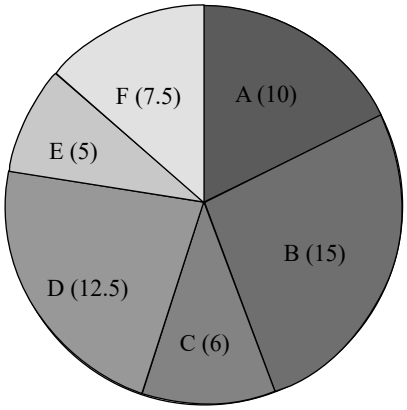
Quantity II: A work which is completed by 40 men in 16 days can be completed by 50 women in 24 days. 32 men and 20 women start doing the work. After 6 days, they leave. If the remaining work is to be completed in 12 days by *x* number of men, find value of *x*.

116. Quantity I: A trader gives an additional concession of 35% on an article which is already get discounted by 20% on the marked price. If the buyer pays an amount of Rs. 2600 for the article, then find the marked price.

Quantity II: A man sold an article for Rs. 4080 and incurred a loss. If he had sold the article for Rs. 4710, his gain would have been equal to half of the amount of loss that he incurred. At what price should he sell the article to have 10% profit?

Directions (117-120) : Study the following pie chart and table carefully and answer the following questions:

Time taken by different inlet pipes to fill the tank (in hours)



The table shows time taken by different outlet pipes to empty the tank:

Outlet Pipes	Time (in hours)
G	7.5
H	5
I	6
J	3
K	4
L	7.5

117. If pipes C and D were opened together to fill a tank but accidentally pipe I was also opened with pipes C and D, then find the time taken to fill the empty tank.

(*a*) 6 hrs (*b*) 8 hrs (*c*) 12.5 hrs (*d*) 10 hrs.

(*e*) None of these

118. If pipes J and K were used to drain water from the tank but were not opened properly, so the pipes allowed 50% and $66\frac{2}{3}\%$ part of water respectively, how long will they take to empty the tank?

(*a*) 2 hrs. (*b*) 4 hrs. (*c*) 3 hrs. (*d*) 2.5 hrs.

(*e*) 3.5 hrs.

119. The pipes B and E filled the empty tank of capacity 150 liters in 3.75 hrs, then find how many liters of water pipe D filled in 1 hour?

(*a*) 10 liters (*b*) 15 liters (*c*) 12 liters (*d*) 14 liters

(*e*) 8 liters

198. How can the user determine what programs are available on a computer?

(*a*) Checking the hard disk properties

(*b*) Viewing the installed programs during the boot-in process

(*c*) Checking the operating system for a list of installed programs

(*d*) Checking the existing files saved on the disk

(*e*) None of these

199. Processing involves _____.

(*a*) inputting data into a computer system

(*b*) transforming input into output

(*c*) displaying output in a useful manner

(*d*) providing relevant answers

(*e*) None of these

200. Which process checks to ensure the components of the computer are operating and connected properly?

(*a*) Booting

(*b*) Processing

(*c*) Saving

(*d*) Editing

(*e*) None of these

❑❑❑

EXPLANATION

Solutions (1 – 5):

Floor	Flat 1	Flat 2
3	M (Apple)	P (Banana)
2	O (Mango)	N (Cherry)
1	R (Orange)	Q (Watermelon)

1. (*b*) The one who likes Banana.

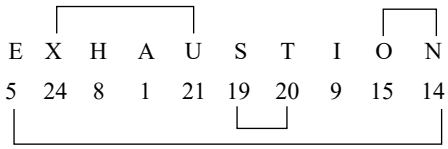
2. (*a*) Both I (O is north-west of Q) and III (P lives above Mango).

3. (*b*) One floor gap between the ones who like Orange and Banana.

4. (*d*) P like Banana.

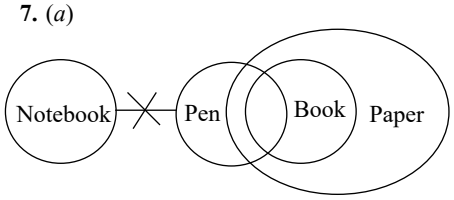
5. (*e*) Person N likes Cherry and lives on flat-2 of the second floor.

6. (*a*)



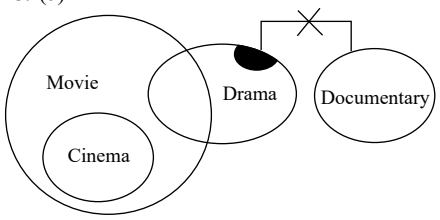
Four pairs EN, ST, NO, and UX.

7. (*a*)



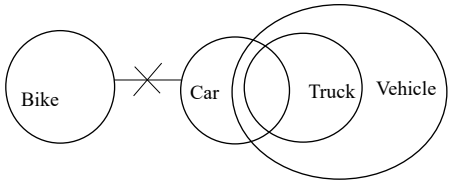
Both II and III follows.

8. (*e*)



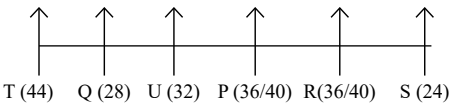
Both I and III follow.

9. (*d*)



Only I follow.

Solutions (10 – 14):



10. (*c*) U is at the third position.

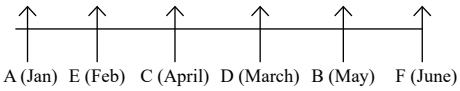
11. (*e*) R's age is either 36 or 40.

12. (*d*) S is the youngest person.

13. (*e*) U stands immediately to the right of Q.

14. (*e*) Only statement I is true.

Solutions (15-19):



15. (*d*) Person D occupies the 4th position in the row.

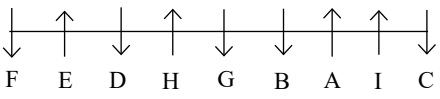
16. (*a*) Person A was born in January.

17. (*c*) C sits immediately to the left of D.

18. (*c*) D's birth-month is March.

19. (*d*) All three statements are true.

Solutions (20 – 24):



20. (*d*) B is at position 6.

21. (*c*) Pair I and A faces north.

22. (*c*) D sits immediately to the right of E.

23. (*b*) B sits third to the left of D.

24. (*c*) Only II and III is true.

25. (*e*) There is not any consonants in the above arrangement are immediately preceded by a symbol and immediately followed by a vowel.

26. (*b*) Three digits in the sequence are immediately preceded and immediately followed by letters.

27. (*c*) L will be the tenth element from the left end if all symbols and numbers are dropped.

28. (*e*) U is the 4th to the left of the 19th element from the left.

29. (*d*) There is two symbols which is immediately followed by a letter and preceded by a number.

30. (*a*) From statement I: Suraj is five ranks below Dinesh who is 15th from the bottom.

Dinesh rank from below = 15th

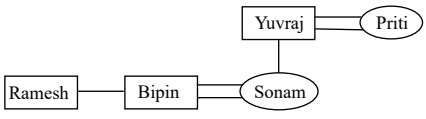
Suraj ranks below from Dinesh = 5

So, Suraj rank from below = 15 – 5 = 10th

Now, Suraj rank from top = 45 – 10 = 35th

Hence, statement I alone is sufficient to answer the question.

31. (*b*) From statement (I):



From statement (II),

PAPER 2

IBPS RRB Clerk Prelims Solved Paper 2024

REASONING ABILITY

Directions (1-5): Study the following information carefully and answer the given questions.

Seven employees K, L, M, N, O, X and Y live on seven different floors of a seven-storey building, where the lowermost floor is numbered one, the one above that is numbered two and so on till the topmost floor is numbered seven. Only one employee lives on each floor.

K lives on an even numbered floor. Three employees live between K and L. O lives immediately above L. As many employees live below O as above N. Only one employee lives between N and Y. M lives below X, who does not live on the odd numbered floor.

1. On which of the following floors does K live?

(*a*) 4th floor (*b*) 6th floor

(*c*) 3rd floor (*d*) 2nd floor

(*e*) 5th floor

2. Which of the following statements is true with respect to the final arrangement?

(*a*) Y lives on 3rd floor.

(*b*) X lives immediately below O.

(*c*) N lives two floors below K.

(*d*) L lives immediately above M.

(*e*) K lives on the 4th floor.

3. Who among the following employees lives on the 5th floor?

(*a*) Y (*b*) K (*c*) N (*d*) X

(*e*) O

4. How many employees live above L?

(*a*) One (*b*) Four (*c*) Three (*d*) Five

(*e*) Two

5. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to that group?

(*a*) Y (*b*) O (*c*) N (*d*) M

(*e*) K

Directions (6-10): Study the following information carefully and answer the given questions.

Seven students – P, Q, R, S, T, U and V bought a thing one after another on different occasions. It is assumed that no other students bought a thing other than the given students.

Three students bought a thing between U and Q, who bought after U. Only one student bought a thing between Q and R. P bought a thing immediately before R. Two students bought a thing between T and P. T bought a thing immediately before S. Only one student bought a thing between S and V.

6. Who among the following students bought a thing at first?

(*a*) R (*b*) P (*c*) U (*d*) V

(*e*) S

7. How many students bought a thing after P?

(*a*) Three (*b*) Two (*c*) Four (*d*) One

(*e*) More than four

8. Which of the following statements is true with respect to the final arrangement?

(*a*) Only two students bought a thing after Q

(*b*) R bought a thing at last

(*c*) V bought a thing immediately before T

(*d*) Only one student bought a thing between U and T

(*e*) All are true

9. Who among the following students bought a thing immediately before Q?

(*a*) S (*b*) P (*c*) Q (*d*) T

(*e*) U

10. If U is related to T, S is related to P in a certain way, then V is related to____?

(*a*) P (*b*) T (*c*) R (*d*) Q

(*e*) S

Directions (11-15): Study the following information carefully and answer the given questions.

Z T G A M K L B E Q D H S N P V R J C Y W U

11. Which letter is third to the right of the ninth letter from the left end?

(*a*) K (*b*) D (*c*) H (*d*) Q

(*e*) S

12. How many vowels are there in the series that are immediately preceded by a consonant and immediately followed by a consonant?

(*a*) None (*b*) One (*c*) Two (*d*) Three

(*e*) Four

13. If all letters that come after 'L' in the alphabetical order are removed from the series,then how many letters remain?

(*a*) Eight (*b*) Nine (*c*) Ten (*d*) Eleven

(*e*) Twelve

14. How many letters are there between the fifth letter from the left end and the eighth letter from the right end in the alphabetical series?

(*a*) One (*b*) Two (*c*) Three (*d*) Four

(*e*) Five

15. If all the vowels are removed from the given series, which of the following letters will be the 10th from the left end in the new series?

(*a*) Q (*b*) D (*c*) H (*d*) S

(*e*) N

32. Statement:
$A \le P \le N \le X = Y > T \ge U < S > E$
Conclusions:
I. $A < X$
II. $A = Y$

33. Statement:
$A \le P \le N \le X = Y > T \ge U < S > E$
Conclusions:
I. $U \le P$
II. $E < U$

34. Statement:
$P < V = S \le R \le Q = M \ge Z \le J < B$
Conclusions:
I. $V \le J$
II. $M > P$

Directions (35-37): Study the following statements and then decide which of the given conclusion(s) logically follow(s) from the given statements disregarding the commonly known facts.

35. Statements:
Only a few Drums are Violins.
Some Lyres are Violins.
All Flutes are Lyres.
Conclusions:
I. All Drums are Flutes
II. Some Drums are not Violins
(*a*) Only conclusion I follows
(*b*) Either conclusion I or II follows
(*c*) Both conclusions I and II follow
(*d*) Neither conclusion I nor II follows
(*e*) Only conclusion II follows

36. Statements:
Some Guitars are not Sitars.
Only a few Sitars are Mandolins.
Only Mandolin is Banjo.
Conclusions:
I. No Guitar is Banjo.
II. All Mandolins can never be Sitar.
(*a*) Neither conclusion I nor II follows
(*b*) Both conclusions I and II follow
(*c*) Either conclusion I or II follows
(*d*) Only conclusion I follows
(*e*) Only conclusion II follows

37. Statements:
Only a few Oranges are Apples.
Some Apples are Bananas.
No Banana is a Fruit.
Conclusions:
I. Some Apples are Fruits.
II. All Oranges are Bananas is a possibility.
(*a*) Only conclusion I follows
(*b*) Either conclusion I or II follows
(*c*) Both conclusions I and II follow
(*d*) Only conclusion II follows
(*e*) Neither conclusion I nor II follows

Directions (38-40): Study the following information carefully and answer the given questions.

Santosh is standing at point P facing towards south, then he walks for 9m in that direction to reach point Q. Then he turns towards the east and walks for 12m to reach point R. Now, he turns towards the north and walks for 15m to reach point S. From point S, he turns towards the west and walks for 13m to reach point T. Finally, he turns towards the south and walks for 6m to reach point U.

38. Point U is at what distance and in which direction with respect to point P?
(*a*) 3m, East (*b*) 1m, West
(*c*) 2m, South (*d*) 1m, East
(*e*) 1m, North

39. What is the shortest distance between point P and point R?
(*a*) 14 m (*b*) 16 m (*c*) 15 m (*d*) 18 m
(*e*) 20 m

40. What is the direction of point T with respect to point R?
(*a*) East (*b*) South-west
(*c*) North-east (*d*) South-east
(*e*) North-west

NUMERICAL ABILITY

Directions (41-45): What will come in the place of question mark (?) in the following number series.

41. 8, ?, 160, 480, 960, 960
(*a*) 55 (*b*) 22 (*c*) 33 (*d*) 40
(*e*) 99

42. 21, 23, 26, 31, ?, 49
(*a*) 44 (*b*) 40 (*c*) 38 (*d*) 48
(*e*) 39

43. 5, ?, 17, 33, 65, 129
(*a*) 20 (*b*) 15 (*c*) 12 (*d*) 10
(*e*) 9

44. 40, 80, 140, 220, ?, 440
(*a*) 400 (*b*) 360 (*c*) 300 (*d*) 320
(*e*) 340

45. 40, 102, 50, 92, ?, 82
(*a*) 74 (*b*) 65 (*c*) 60 (*d*) 70
(*e*) 64

46. The present age of Karan is 20 years and 5 years hence, the ratio of the ages of Karan to Sumit is 5 : 3. Find the age of Sumit, 3 years ago.
(*a*) 7 years (*b*) 8 years
(*c*) 13 years (*d*) 9 years
(*e*) 11 years

47. Mohit invests Rs. 4000 in simple interest scheme at the rate of 10% per annum for *t* years. Find the value of *t*, he received the simple interest after *t* years is Rs. 2000.
(*a*) 2 years (*b*) 3 years
(*c*) 6 years (*d*) 4 years
(*e*) 5 years

48. Hemant bought a toy car for Rs. 3000 and sold it to Sneha at a loss of Rs. 2000. Find the selling price of the toy car if Sneha had sold it at a profit of 30%.
(*a*) Rs.1000 (*b*) Rs.1300
(*c*) Rs.1400 (*d*) Rs.1500
(*e*) Rs.1100

49. Janak can complete the work in 8 days. Janak and Sweety together can complete the work in $3\frac{3}{7}$ days. In how many days Sweety alone can complete the work?

(*a*) 8 days (*b*) 6 days

(*c*) 9 days (*d*) 12 days

(*e*) 10 days

50. A truck's speed is 30 kmph less than that of a car and the car can cover 300 km in 5 hours. How many hours will it take for the truck to cover a distance of 600 km?

(*a*) 15 (*b*) 14 (*c*) 18 (*d*) 12

(*e*) 20

51. A and B are two integers whose product is 8 less than 24, and A is one-fourth of B, find the value of B.

(*a*) 5 (*b*) 4 (*c*) 8 (*d*) 12

(*e*) 6

52. Area of the right angle triangle is 160 cm^2 and the ratio of base to height of the triangle is 4 : 5, find the height of the triangle.

(*a*) 8 cm (*b*) 20 cm

(*c*) 16 cm (*d*) 12 cm

(*e*) 24 cm

53. A 160 m long train crosses a pole in 8 seconds. If the speed of train is increased by 20 m/s, what will be the time taken by the train to cross the same pole?

(*a*) 18 seconds (*b*) 12 seconds

(*c*) 6 seconds (*d*) 4 seconds

(*e*) 15 seconds

54. Rohit's monthly income is Rs. 32000. He spends 20% of his income on phone, he gives Rs. 10000 to his father and he saves the remaining amount. Find the savings of Rohit.

(*a*) Rs. 17200 (*b*) Rs. 15600

(*c*) Rs. 16200 (*d*) Rs. 18200

(*e*) Rs.19200

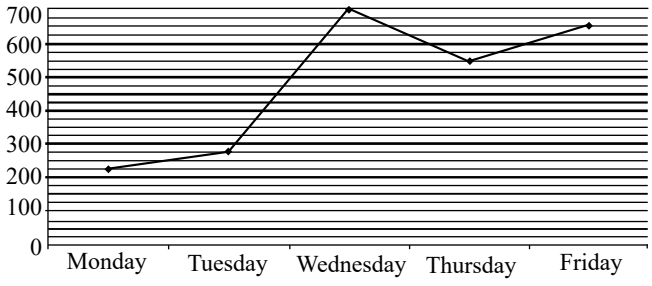
55. Ratio of the number of boys to girls in the class is 4 : 1 and the difference between the number of boys and girls in the class is 45. Find the total number of students in the class.

(*a*) 75 (*b*) 88 (*c*) 96 (*d*) 72

(*e*) 84

Directions (56-60): Read the following information carefully and answer the questions given below. The given line graph shows the total number of people who went to watch a movie on five different days namely Monday, Tuesday, Wednesday, Thursday and Friday.

The total number of people who went to watch a movie



56. The total number of people who went to watch a the movie on Sunday is equal to the average of the total number of people who went to watch a movie on Wednesday and Thursday. Find the total number of people who went to watch a movie on Sunday.

(*a*) 675 (*b*) 650 (*c*) 600 (*d*) 625

(*e*) 725

57. The ratio of the number of males to females who went to watch a movie on Wednesday is 4 : 3. Find the number of females who went to watch a movie on Wednesday.

(*a*) 300 (*b*) 500 (*c*) 480 (*d*) 420

(*e*) 400

58. Find the ratio of the total number of people who went to watch a movie on Monday to Tuesday.

(*a*) 2 : 1 (*b*) 4 : 3 (*c*) 9 : 11 (*d*) 11 : 9

(*e*) 3 : 4

59. Find the difference between the number of people who went to watch a movie on Friday and Monady.

(*a*) 554 (*b*) 450 (*c*) 425 (*d*) 455

(*e*) 480

60. The total number of people who went to watch a movie on Monday, Tuesday and Wednesday is what percentage of the total number of people who went to watch a movie on Thursday and Friday together?

(*a*) 110% (*b*) 120% (*c*) 145% (*d*) 135%

(*e*) 100%

Directions (61-65): Read the following information carefully and answer the questions given below.

The given table chart shows the number of cookies prepared by three different bakers A, B and C and also given the number of cupcakes prepared by these three bakers and also given the number of candies prepared by these three bakers.

Bakers	The number of cookies prepared	The number of cupcakes prepared	The number of candies prepared
A	280	720	555
B	600	320	400
C	450	645	300

61. The number of cookies prepared by Baker D is 40% more than that of Baker B and the total number of cookies, cupcakes and candies prepared together by Baker D is 1340. Find the number of candies and cupcakes prepared by Baker D.

(*a*) 300 (*b*) 350 (*c*) 450 (*d*) 500

(*e*) 400

62. Out of the total number of cupcakes prepared by Baker A and Baker C, 50% and 60% of them were sold. Find the sum of the number of cupcakes sold by Baker A and Baker C.

(*a*) 747 (*b*) 784 (*c*) 520 (*d*) 664

(*e*) 824

63. If the number of ice cakes prepared by Baker B is $\frac{9}{5}$ th of the number of candies prepared by Baker B and the ratio of the number of ice cakes prepared by Baker B to C is 8 : 9, then find the number of ice cakes prepared by Baker C.

(*a*) 850 (*b*) 810 (*c*) 820 (*d*) 910

(*e*) 840

64. The number of cupcakes prepared by Baker A is what percentage of the sum of the number of candies prepared by Baker A and the number of cupcakes prepared by Baker C?

(*a*) 58% (*b*) 42% (*c*) 50% (*d*) 65%

(*e*) 60%

65. Find the ratio of the number of cookies prepared by Baker C to the number of candies prepared by Baker B.

(*a*) 5 : 4 (*b*) 9 : 8 (*c*) 5 : 2 (*d*) 3 : 4

(*e*) 7 : 8

Directions (66-80): What value should come in the place of (?) in the following questions?

66. $\sqrt{(324)} \times ? + 184 = 800 \div 2$

(*a*) 6 (*b*) 10 (*c*) 15 (*d*) 12

(*e*) 8

67. $(250 - 20 \times 5) \div \sqrt[3]{216} = ?$

(*a*) 30 (*b*) 10 (*c*) 20 (*d*) 15

(*e*) 25

68. $1331 \div 11 - ? = 720 \div 12$

(*a*) 61 (*b*) 100 (*c*) 49 (*d*) 15

(*e*) 95

69. 15% of 1000 ÷ ? + 130 = 20% of 800

(*a*) 6 (*b*) 15 (*c*) 8 (*d*) 5

(*e*) 10

70. $? + (-30)^2 = 890 + \sqrt{25600}$

(*a*) 170 (*b*) 150 (*c*) 140 (*d*) 110

(*e*) 120

71. $? = \frac{7}{18} + \frac{11}{72} - \frac{1}{36}$

(*a*) $\frac{17}{72}$ (*b*) $\frac{5}{72}$ (*c*) $\frac{31}{72}$ (*d*) $\frac{1}{72}$

(*e*) $\frac{37}{72}$

72. $775 - 45\% \text{ of } 1500 = ? - \sqrt{1024}$

(*a*) 132 (*b*) 94 (*c*) 115 (*d*) 108

(*e*) 72

73. $\sqrt{(74 + \sqrt{84 - 35})} \times 25 = ?$

(*a*) 255 (*b*) 225 (*c*) 250 (*d*) 245

(*e*) 265

74. $[154 + 145] \div 13 = ? - 117$

(*a*) 69 (*b*) 78 (*c*) 102 (*d*) 140

(*e*) 99

75. 27.5% of 400 + 192 = ?

(*a*) 302 (*b*) 360 (*c*) 355 (*d*) 392

(*e*) 400

76. $\sqrt{514 + \sqrt{242 - \sqrt{289}}} = ?$

(*a*) 18 (*b*) 22 (*c*) 19 (*d*) 20

(*e*) 23

77. $? \times 9 + \sqrt{676 \div 4} = 85$

(*a*) 10 (*b*) 8 (*c*) 5 (*d*) 6

(*e*) 3

78. 1450 – 380 + ? + 450 = 2560

(*a*) 1040 (*b*) 1290 (*c*) 410 (*d*) 980

(*e*) 950

79. $4165 \div 17 \div ? = 364 \div 52 \times \sqrt{49}$

(*a*) 10 (*b*) 9 (*c*) 5 (*d*) 7

(*e*) 11

80. $? = \sqrt{484} + 17 \times 5 + 15$

(*a*) 100 (*b*) 110 (*c*) 160 (*d*) 90

(*e*) 122

❑❑❑

EXPLANATION

Solutions (1-5):

Floors	Employees
7	Y
6	K
5	N
4	X
3	O
2	L
1	M

1. (*b*) K lives on 6th floor.

2. (*d*) L lives immediately above M.

3. (*c*) N lives on the 5th floor.

4. (*d*) Five employees live above L.

5. (*e*) K lives on even numbered floor and rest live on odd numbered floors.

Solutions (6-10):

Students
U
V
T
S
Q
P
R

6. (*c*) U bought first.

7. (*d*) One student bought after P.

8. (*e*) All are true.

9. (*a*) S bought a thing immediately before Q.

10. (*e*) V is related to S in the same way.

Solutions (11-15):

11. (*c*) H is third to the right of the ninth letter from the left end.

12. (*c*) Two vowels (GAM, BEQ) are there in the series that are immediately preceded by a consonant and immediately followed by a consonant.

13. (*c*) Ten letters remain after removing letters that come after L.

G S K L B E D H J C

14. (*b*) Two letters N and O are there between the fifth letter from the left end (M) and the eighth letter from the right end (P) in the alphabetical series.

15. (*c*) H is 10th from the left end after removing all the vowels.

CHAPTER

5

Order and Ranking

In Order and Ranking topic, Ranking is the position of any person from the right, left, top, or bottom in the row or class.

Order is known as a sequence of people. For example, left, right, top, bottom, ascending order, and descending order based on weight, height, amount, marks, age, etc.

Types of Order & Ranking Questions:

1. Ranking Based
2. Comparison Based
3. Sequence Based

RANKING BASED

In this type of questions, candidates need to find the rank or position of a person from top, bottom, left, right, etc. Also, find the total number of persons, interchanged positions, maximum and minimum, overlapping case, etc.

Concepts To Solve Ranking-Based Questions:

(*i*) Total Number of Persons: If counting the total number of people, then in the information, take such a person whose place is given from both sides of the row.

(It is always a case of not being able to determine or the data being insufficient if the status of individual people on either side is given.)

Total number of persons

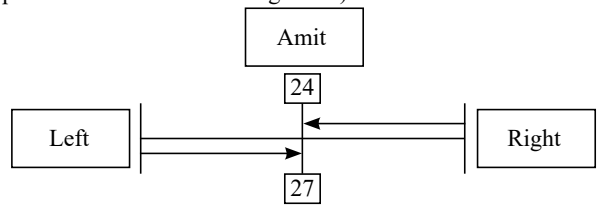
= (Rank from Left end + Rank from Right end) – 1

(Minus 1 because the position of one person counts double from left and right both)

Example: In a class, Amit is 27 from the left side and 24 from the right side. How many students are there in the class?

(*a*) 49 (*b*) 53 (*c*) 50 (*d*) 52 (*e*) 51

Solution (*c*)**:** Total number of students = (position of Amit from the left end + position of Amit from the right end) – 1



Therefore, the total number of students

= (27 + 24) – 1 = 51 – 1 = 50

(*ii*) Position of a Person from the Opposite Ends: To find the rank or position of a person from the opposite side, when rank or position from one side and total number of persons are given.

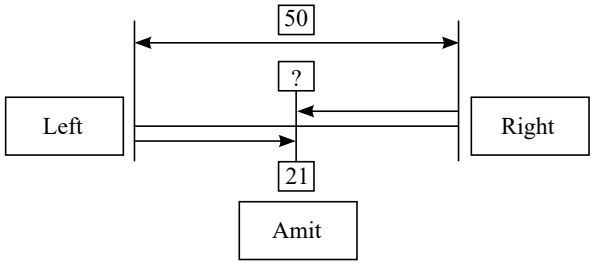
Position of a person from the opposite ends = (Total number of persons of that row – Position of the same person from the other side) + 1

(Adding 1 because when we subtract the rank or position of a person form the total number of person, we also subtract the person whose rank is asked. Hence 1 is added to count that person.

Example: In a class of 50 students, Amit is 21 from the left side. What is Amit's rank from the right side?

(*a*) 22 (*b*) 31 (*c*) 27 (*d*) 29 (*e*) 30

Solution (*e*)**:** The position of Amit from the right side is = (The total number of students of that row – Position of Amit from the left side) +1



Therefore, the position of Amit from the right side

= (50 – 21) + 1 = 29 + 1 = 30

Hence, the position of Amit from the right side is 30.

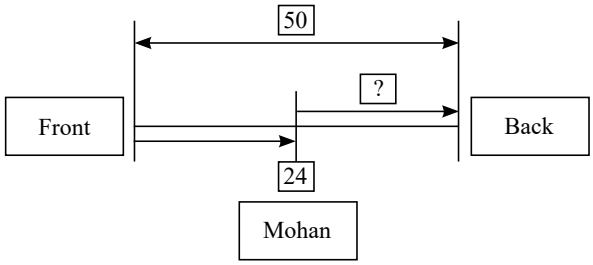
(*iii*) Number of Persons After or Before the given Person in a Row: To find the number of persons after or before a person whose rank is from another side and the total number of persons given.

Number of persons after or before the given person in a row = Total number of persons – Position of the same person from another side

Example: In a class of 50 students, the position of Mohan from the front side of the row is 24th. Find the number of persons after Mohan in that row.

(*a*) 26 (*b*) 31 (*c*) 27 (*d*) 29 (*e*) 30

Solution (*a*)**:** The number of persons after Mohan = Total number of persons – Position of Mohan from the front side.



Therefore, the number of persons after Mohan = (50 – 24) = 26

(*iv*) Number of persons between two persons: To find the total number of persons between two different persons when the total number of persons and the positions of two different persons from two different sides are given.

(*a*) **Overlapping Case:** If the sum of the positions of a person from the right side and another person from the left side is greater than the total number of persons, then this is a case of overlapping.

Number of persons between two persons = [(Sum of positions of two different persons from both sides) – (Total number of persons)] – 2

(Minus 2 because the position of two persons counts double due to overlapping cases.)

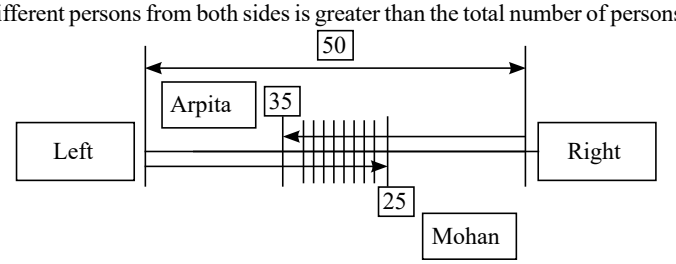
Example 1: In a class of 50 students, Mohan's position from the left side is 25th, and Arpita's position from the right side is 35th. Find the number of people there between Mohan and Arpita.

(*a*) 11 (*b*) 8 (*c*) 9 (*d*) 10 (*e*) 12

Solution (*b*)**:** The total number of students in the class is 50.

The sum of the positions of Mohan from the left side and the position of Arpita from the right side is 25 + 35 = 60.

So, it is an overlapping case because the sum of the positions of two different persons from both sides is greater than the total number of persons.



Number of persons between two persons = [(Sum of positions of two different persons from both sides) – (Total number of persons)] – 2

Therefore, the number of people between Mohan and Arpita

= [(25 + 35) – 50] – 2 = [60 – 50] – 2 = 10 – 2 = 8

(*b*) **Non-overlapping Case:** If the sum of the positions of a person from the right side and another person from the left side is less than the total number of persons, then this is a case of non-overlapping.

Number of persons between two persons = (Total number of persons) – (Sum of positions of two different persons from both sides)

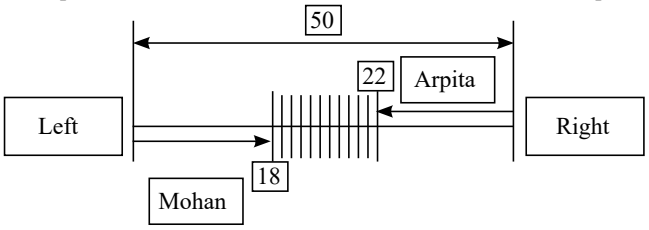
Example 2: In a class of 50 students, Mohit's position from the left side is 18th, and Arpita position from the right side is 22nd. Find the number of people there between Mohan and Arpita.

(*a*) 11 (*b*) 8 (*c*) 9 (*d*) 10 (*e*) 12

Solution (*d*)**:** The total number of students in the class is 50.

The sum of the positions of Mohit from the left side and the position of Arpita from the right side is 18 + 22 = 40.

So, it is a non-overlapping case because the sum of the positions of two different persons from both sides is less than the total number of persons.



Number of persons between two persons = [(Total number of persons) – (Sum of positions of two different persons from both sides)]

Therefore, the number of people between Mohan and Arpita

= [50 – (18+22)] = [50 – 40] = 10

(*v*) One Person is sitting exactly between two different Persons: If the positions of two different persons are given from opposite sides of the row, the total number of persons is given. Also, a third person is sitting exactly in the middle of those two people.

If a third person sits exactly in the middle of two persons, then first we have to understand that the total number of persons sitting between those two persons and the total number of persons sitting in between will always be an odd number because the middle number is only an odd number. Happens in If the total number of people sitting in the middle is an even number, then the place of that third person will not be clear and the answer cannot be determined.

(*a*) **Non-Overlapping Case:** If the sum of the positions of a person from the right side and another person from the left side is less than the total number of persons, then this is a case of non-overlapping.

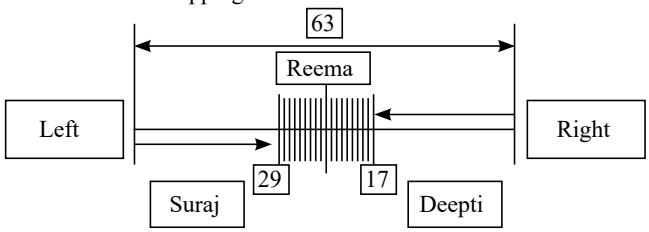
Example 1-3: In a row of 63 students, Suraj is 29th from the left end and Deepti is 17th from the right end if Reema is necessarily exactly between Suraj and Deepti.

Solution**:** The total number of students in the row is 63.

The sum of the ranks of Suraj from the left end and Deepti from the right end is

29 + 17 = 46

So, if the sum of the positions of a person from the right side and another person from the left side is less than the total number of persons, then this is a case of non-overlapping.



Number of persons between two persons = [(Total number of persons) – (Sum of positions of two different persons from both sides)]

Now, the number of people between Suraj and Deepti is

63 – 46 = 17

Reema is necessarily exactly between Suraj and Deepti.

The middle of 17 = $\frac{17+1}{2} = \frac{18}{2} = 9$

Therefore, Reema is in 9th place between both Suraj and Deepti.

1. What is Reema's rank from the right end?
   (*a*) 35 (*b*) 37 (*c*) 39 (*d*) 30 (*e*) 26
   Solution (*e*)**:** Deepti is 17th from the right end and Reema is in 9th place between both Suraj and Deepti.
   Therefore, Reema's rank from the right end is 17 + 9 = 26.
2. What is Reema's rank from the left end?
   (*a*) 38 (*b*) 37 (*c*) 39 (*d*) 40 (*e*) 41
   Solution (*a*)**:** Suraj is 29th from the left end and Reema is in 9th place between both Suraj and Deepti.
   Therefore, Reema's rank from the left end = 29 + 9 = 38.
3. How many people are there between Reema and Suraj?
   (*a*) 8 (*b*) 13 (*c*) 9 (*d*) 10 (*e*) 11
   Solution (*a*)**:** Reema is in 9th place between both Suraj and Deepti.
   Therefore, the number of persons between Reema and Suraj = 9 – 1 = 8.

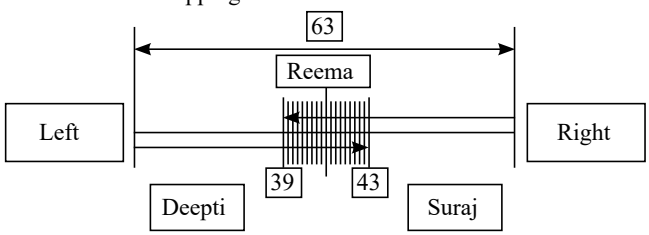
(*b*) **Overlapping Case:** If the sum of the positions of a person from the right side and another person from the left side is greater than the total number of persons, then this is a case of overlapping.

Example 1-3: In a row of 63 students, Suraj is 43rd from the left end and Deepti is 39th from the right end if Reema is necessarily exactly between Suraj and Deepti.

Solution**:** The total number of students in the row is 63.

The sum of the ranks of Suraj from the left end and Deepti from the right end is 43 + 39 = 82

So, if the sum of the positions of a person from the right side and another person from the left side is greater than the total number of persons, then this is a case of overlapping.



Number of persons between two persons = [(Sum of positions of two different persons from both sides) – (Total number of persons)] – 2

Now, the number of people between Suraj and Deepti

= (82 – 63) – 2 = 19 – 2 = 17

Reema is necessarily exactly between Suraj and Deepti.

The middle of 17 = $\frac{17+1}{2} = \frac{18}{2} = 9$

Therefore, Reema is in 9th place between both Suraj and Deepti.

1. What is Reema's rank from the right end?

(*a*) 35 (*b*) 37 (*c*) 39 (*d*) 30 (*e*) 26

Solution (*d*)**:** Deepti is 39th from the right end and Reema is in 9th place between both Suraj and Deepti.

Therefore, Reema's rank from the right end is 39 – 9 = 30.

2. What is Reema's rank from the left end?

(*a*) 38 (*b*) 37 (*c*) 39 (*d*) 40 (*e*) 34

Solution (*e*)**:** Suraj is 43rd from the left end and Reema is in 9th place between both Suraj and Deepti.

Therefore, Reema's rank from the left end = 43 – 9 = 34.

3. How many people are there between Reema and Deepti?

(*a*) 8 (*b*) 13 (*c*) 9 (*d*) 10 (*e*) 11

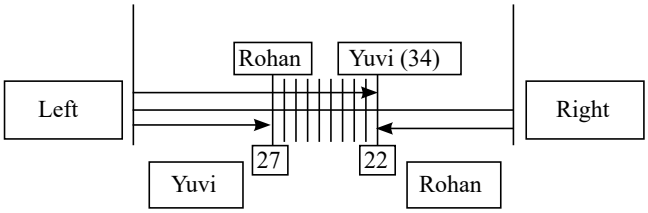
Solution (*a*)**:** Reema is in 9th place between both Suraj and Deepti.

Therefore, the number of persons between Reema and Deepti = 9 – 1 = 8.

(*vi*) Position Interchange: When in the same row, the positions of two persons from two different ends are given and their positions are interchanged. After swapping, the position of one of them is given again on the same side as it was given before swapping.

(*a*) **Non-Overlapping:** If the position of one person is increased after the interchange, and the position of the other person will also be increased, then it is non-overlapping.

Example 1-4: In a class, Rohan is 22nd from the right end and Yuvi is 27th from the left end. After some time when they interchange their position respectively the position of Yuvi becomes 34th from the left end.



1. Find out the position of Rohan from the left end after interchanging.

(*a*) 25 (*b*) 29 (*c*) 24 (*d*) 27 (*e*) 22

Solution (*d*)**:** Rohan is 22nd from the right end and Yuvi is 27th from the left end.

Therefore, the position of Rohan from the left end after interchanging is 27th.

2. How many people are there in the row?

(*a*) 55 (*b*) 59 (*c*) 63 (*d*) 58 (*e*) 52

Solution (*a*)**:** Yuvi is 22nd from the right end and he is 34th from the left end

Total Number of persons = Sum of the person's rank from both sides (after interchange) – 1

Total Number of persons = Sum of the positions of Yuvi from both sides (after interchange) – 1

= (22 + 34) – 1 = 56 – 1 = 55

3. How many people are there between Rohan and Yuvi?

(*a*) 4 (*b*) 7 (*c*) 6 (*d*) 9 (*e*) 5

Solution (*c*)**:** Number of persons between two persons = [Total number of persons – (Sum of positions of two different persons from both sides but without interchange)]

The persons there between Rohan and Yuvi

= [55 – (22 + 27)] = [55 – 49] = 6

Or

Number of persons between two persons = Difference in the positions of a person (same person) whose position from the same side before and after interchanging is given – 1

Yuvi is 27th from the left end before interchanging and Yuvi is 34th from the left end after interchanging.

The persons there between Rohan and Yuvi

= (27 – 34) – 1 = 7 – 1 = 6

4. What is the position of Rohan from the right end after interchanging?

(*a*) 29 (*b*) 23 (*c*) 32 (*d*) 38 (*e*) 34

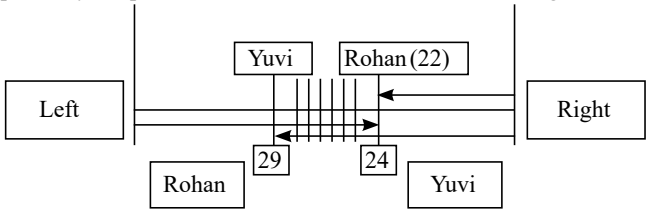
Solution (*a*)**:** The position of the Rohan from the right end before interchanging is 22nd.

The position of the second person from the same side after interchanging = The position of the second person from the same side before interchanging + Difference in the positions of a person (same person) whose position from the same side before and after interchanging is given.

The position of Rohan from the right end after interchanging is = The position of Rohan from the right end before interchanging + (Difference in the positions of Yuvi who is 27th from the left end before interchanging and is 34th from the left end after interchanging) = 22 + (27 – 34) = 22 + (7) = 29

(*b*) **Overlapping:** If the position of one person is decreased after the interchange, and the position of the other person will also be decreased, then it is overlapping.

Example 1-4: In a class, Rohan is 29th from the right end and Yuvi is 24th from the left end. After some time when they interchange their position respectively the position of Rohan becomes 22nd from the right end.



1. Find out the position of Yuvi from the right end after interchanging.

(*a*) 25 (*b*) 29 (*c*) 24 (*d*) 27 (*e*) 22

Solution (*b*)**:** Rohan is 29th from the right end and Yuvi is 24th from the left end.

Therefore, the position of Yuvi from the right end after interchanging is 29th.

2. How many people are there in the row?

(*a*) 55 (*b*) 59 (*c*) 63 (*d*) 58 (*e*) 45

Solution (*e*)**:** Rohan is 24th from the left end and he is 22nd from the right end

Total number of persons = Sum of the person's rank from both sides (after interchange) – 1

Total number of persons = Sum of the positions of Rohan from both sides (after interchange) – 1

= (24+22) – 1 = 46 – 1 = 45

3. How many people are there between Rohan and Yuvi?

(*a*) 4 (*b*) 7 (*c*) 6 (*d*) 9 (*e*) 5

Solution (*c*)**:** Rohan is 29th from the right end and Yuvi is 24th from the left end.

EXERCISE

Directions (1-3): Read the given information and answer the following questions.

In a row of 80 people, A was the nineteenth person from the left end, and B was the twenty-seventh from the right end. C was exactly between K and L. K was ninth to the left of A. L is sixteenth from the left of B.

1. How many people are there between K and L?
(*a*) 56 (*b*) 54 (*c*) 27 (*d*) 52 (*e*) 51

2. What is the rank of C from the right end?
(*a*) 57^{th} (*b*) 58^{th} (*c*) 63^{rd} (*d*) 64^{th} (*e*) 59^{th}

3. If C moves nine ranks towards B, then how many people are between C and L?
(*a*) 7 (*b*) 8 (*c*) 5 (*d*) 4 (*e*) None of these

4. Ram remembers that Siya's birthday falls after the 13^{th} of June but before the 18^{th} of June while Shekhar remembers that Siya's birthday falls before the 15^{th} of June but after the 11^{th} of June. On which day in June is Siya's birthday?
(*a*) 16^{th} (*a*) 13^{th}
(*c*) 14^{th} (*d*) Data adequate
(*e*) None of these

5. Sonali remembers that her father's wedding anniversary falls after the 23^{rd} of December but before the 30^{th} of December, while Chandan, her brother, remembers that her father's anniversary falls after the 21^{st} of December but before the 27^{th} of December but Sonali says that she exactly remembers that birthday is not an even number date. On which date does her father's birthday fall?
(*a*) 24^{th} (*b*) 25^{th}
(*c*) 26^{th} (*d*) 29^{th}
(*e*) None of these

6. Chetan is eleventh from the top of the column and fifteenth from the bottom. How many total students are in the column?
(*a*) 30 (*b*) 25 (*c*) 26 (*d*) 27 (*e*) 31

7. In a row, Aman is twelfth from the left end and Akash is eighteenth from the right end. Jai is eighth to the right of Aman and fourth from the left of Akash. How many total boys are there in the row?
(*a*) 24 (*b*) 30 (*c*) 41 (*d*) 60 (*e*) 48

8. In a long row of students, Vivek is eighteenth from the left end and Mukun is twenty-second from the right end. Preeti is nineteenth from the right of Vivek and third from the right of Mukun. How many total students are there in the row?
(*a*) 55 (*b*) 54 (*c*) 56 (*d*) 60 (*e*) 63

9. Deepesh is twelfth from the left end of the row and Rohit is nineteenth from the right end. If they interchange their positions, then Deepesh is twenty-first from the left end. How many total students are in the row?
(*a*) 30 (*b*) 37 (*c*) 36 (*d*) 39 (*e*) 48

10. In a row, Rajan is nineteenth from the right end and Deba, is third to the left of Rajan, who is sixth to the right of Sam who is fifteenth from the left end. How many total students are in the row?
(*a*) 40 (*b*) 41 (*c*) 39 (*d*) 37 (*e*) None of these

11. In a row, Amrit is eighteenth from the left end and Shri is twenty-eighth from the right end. If they interchange their position, Amrit will be twenty-second from the left end. How many people are there in the row?
(*a*) 39 (*b*) 40
(*c*) 52 (*d*) Data Inadequate
(*e*) None of these

12. In a row, Raj is twenty-first from the left end and Shiv is fifteenth from the right end. If they interchange their positions Shiv is twenty-seventh from the right end. How many people are there between Raj and Shiv?
(*a*) 12 (*b*) 10 (*c*) 13 (*d*) 14 (*e*) None of these

13. In a row, Achit is twenty-first from the left end and Sanjay is twenty-eighth from the right end. Kirti is Seventeenth from the right of Achit and fifth from the right of Sanjay. How many total people are in a row?
(*a*) 59 (*b*) 58 (*c*) 60 (*d*) 57 (*e*) None of these

Directions (14-15): Read the given information and answer the following questions:

In a row of students, Geet was 7^{th} from the left end and Priya was 18^{th} from the right end. If Priya shifts by six places toward Geet, Priya becomes 26^{th} from the left end.

14. How many total students are in the row?
(*a*) 46 (*b*) 49 (*c*) 47 (*d*) 48 (*e*) 50

15. How many students are between Geet and Priya after shifting her towards Geet?
(*a*) 12 (*b*) 19 (*c*) 18 (*d*) 17 (*e*) None of these

16. In a row of 30 boys, when Ram was shifted six places towards the right, he was eighteen from the left end. What was his earlier position from the right end of the row?
(*a*) 18 (*b*) 16 (*c*) 19 (*d*) 20 (*e*) 21

17. In a row, Asha is nineteenth from the left while Bishu is twenty-first from the right end. If Carol is twenty-eighth from the left and is between Asha and Bishu exactly, then how many people are in the row?
(*a*) 58 (*b*) 57 (*c*) 59 (*d*) 60 (*e*) 61

18. In a row of college students, Chanda was seventh to the left of Ram. Preeti is eleventh from the right end. Ram was eighteenth from the left end. How many students are there between Chanda and Preeti, if the total number of students in the row is fourty.
(*a*) 19 (*b*) 20 (*c*) 18 (*d*) 21 (*e*) None of these

19. In a queue of sixty people, Prerna is nineteenth from the left end and Chiguita is twenty-sixth from the right end. If Rajan is eighth to the left of Chiguita then how many people are there between Prerna and Rajan?
(*a*) 15 (*b*) 8 (*c*) 9 (*d*) 10 (*e*) None of these

20. Four friends M, T, R, and P have different ages. R is older than only P. M is older than T. Who among them is the oldest?
(*a*) P (*b*) T (*c*) R (*d*) M (*e*) Cannot be determined

21. Five students A, B, C, D, and E each having a different height. D is taller than E, who is taller than A. B is shorter than E but taller than A. C is the only student who is taller than D. Who is the shortest student?
(*a*) B (*b*) E (*c*) D (*d*) A (*e*) Cannot be determined

22. In a row, Amit is 8^{th} from the top and 19^{th} from the bottom. How many boys are there in a row?
(*a*) 23 (*b*) 20 (*c*) 26 (*d*) 15 (*e*) 48

23. In a row of boys facing north, Manoj is 12^{th} to the left of Rahul, who is 25^{th} from the right end. If Amit, who is 15^{th} from the left end, is 3^{rd} to the right of Manoj. How many boys are there in the row?
(*a*) 32 (*b*) 47 (*c*) 49 (*d*) 52 (*e*) 48

41. If the height of P + Q = 355 cm and R + T = 354 cm then find the sum of the height of T + Q.

(*a*) 390 (*b*) 475 (*c*) 362 (*d*) 398
(*e*) None of the above

42. How many people are shorter than T?

(*a*) One (*b*) Four (*c*) Three (*d*) More than four
(*e*) Two

Directions (43-45): Study the following data carefully and answer the questions accordingly.

Eight students J, K, L, M, N, O, P and Q are submitting their thesis on Planetary motion one by one, but not in the same order.

Q submits before O but after L. Only two students submit the thesis between M and Q. M submits it before L. Only two students submit the thesis after O. K submits it before J but not before P. N submits after L but before P.

43. Who submits the thesis immediately after N?

(*a*) M (*b*) L (*c*) Q (*d*) P (*e*) J

44. How many students have submitted their thesis between L and K?

(*a*) 5 (*b*) 4 (*c*) 3 (*d*) 2 (*e*) 1

45. How many students have submitted the thesis before N?

(*a*) 5 (*b*) 4 (*c*) 3 (*d*) 2 (*e*) 1

Directions (46-50): Study the following information carefully to answer the given question:

Eight people A, B, C, D, E, F, G and H purchase some products one after another but not necessarily in the same order.

Two persons purchase before C but after H. Only three people purchase after C. As many people purchase before H as many people purchase after F. There are only three persons purchase between F and E. A purchase just before F. B purchase before D but after G.

46. Who among the following purchase just after G ?

(*a*) C (*b*) B (*c*) H (*d*) A (*e*) None of the above

47. How many people purchase between F and B?

(*a*) Two (*b*) One (*c*) None (*d*) Three
(*e*) None of the above

48. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

(*a*) B and C (*b*) E and H
(*c*) D and F (*d*) G and E
(*e*) A and F

49. How many people purchase before G?

(*a*) Two (*b*) One
(*c*) None (*d*) Three
(*e*) None of the above

50. Who among the following purchase just before D?

(*a*) C (*b*) F (*c*) H (*d*) E (*e*) None of the above

Answer Key
(Scan QR code for Detailed Explanation)

1. (*c*)	**2.** (*a*)	**3.** (*d*)	**4.** (*c*)	**5.** (*b*)	**6.** (*b*)	**7.** (*c*)	**8.** (*a*)	**9.** (*d*)	**10.** (*c*)
11. (*e*)	**12.** (*e*)	**13.** (*c*)	**14.** (*b*)	**15.** (*c*)	**16.** (*c*)	**17.** (*b*)	**18.** (*c*)	**19.** (*e*)	**20.** (*d*)
21. (*d*)	**22.** (*c*)	**23.** (*e*)	**24.** (*e*)	**25.** (*c*)	**26.** (*d*)	**27.** (*c*)	**28.** (*c*)	**29.** (*c*)	**30.** (*d*)
31. (*d*)	**32.** (*b*)	**33.** (*b*)	**34.** (*a*)	**35.** (*d*)	**36.** (*e*)	**37.** (*d*)	**38.** (*d*)	**39.** (*b*)	**40.** (*c*)
41. (*c*)	**42.** (*d*)	**43.** (*c*)	**44.** (*b*)	**45.** (*d*)	**46.** (*c*)	**47.** (*a*)	**48.** (*d*)	**49.** (*c*)	**50.** (*b*)

About The Author

Mayank Sir

I, Mayank Shukla, an experienced educator, author, and mentor in Quantitative Aptitude, have studied all major competitive exams such as IBPS, SBI, RBI, and SSC. Over the years, I have guided lakhs of students, many of whom successfully cleared their banking exams.This book reflects my years of experience and is designed in a clear, structured format to help you prepare faster and move closer to your goal. I hope it becomes a valuable companion in your preparation journey.Enjoy learning!

Vidhu Sir

I, Vidhu Vireshwar Sharma, an experienced educator, author, and mentor in Reasoning Ability, have studied all major competitive exams such as IBPS, SBI, RBI, SSC, and others. Over the years, I have guided lakhs of students, many of whom have cleared their banking exams.This book presents my years of experience in a clear and structured format to help you prepare faster and move closer to your goal. I hope it becomes a valuable companion in your preparation journey.Enjoy learning!

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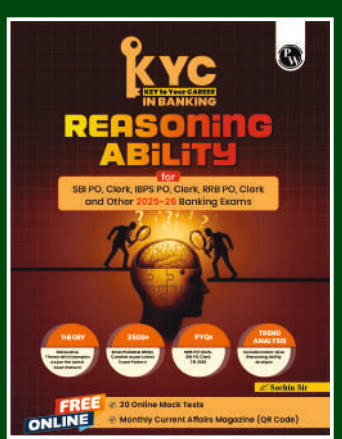

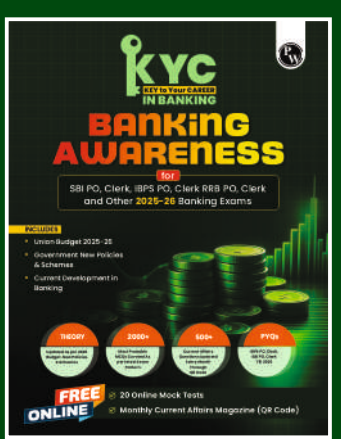

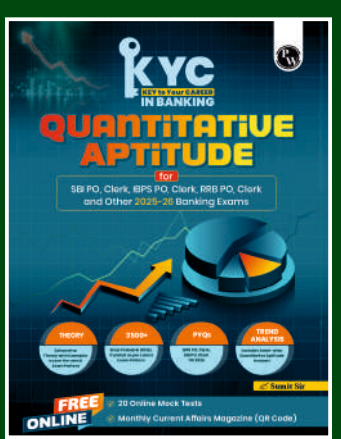

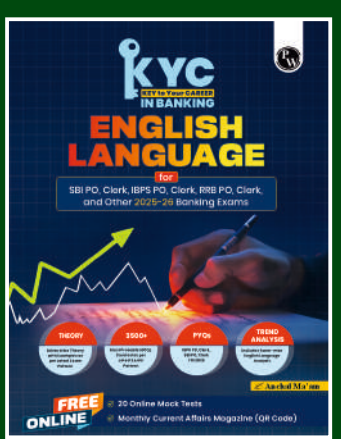

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