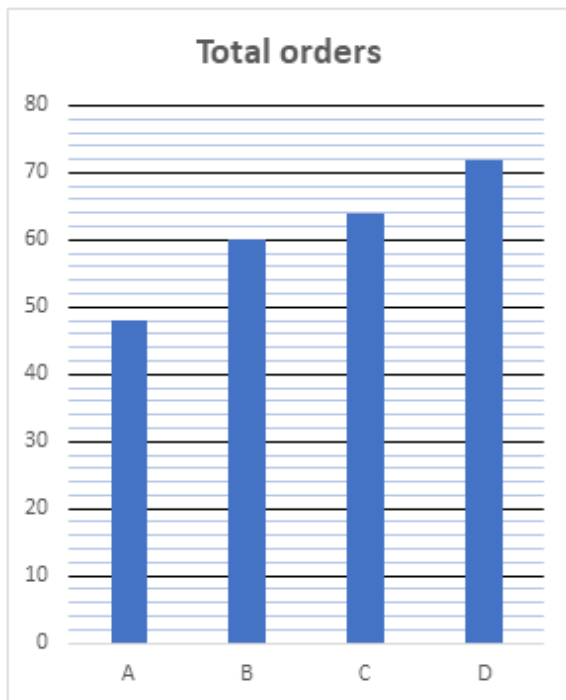


RRB PO Mains 2025 Quantitative Aptitude Section Memory Based

Directions (1-6): The bar graph shows the total number of orders (veg + non-veg) delivered by different restaurants (A, B, C and D) in the month of March. The table shows the distribution of non-veg orders for each restaurant out of the total non-veg orders delivered by all four restaurants.

Note – Difference between number of veg and non-veg orders delivered in B is 36.



Restaurants	Percentage distribution of non-veg orders for each restaurant out of the total non-veg orders delivered
A	10%
B	40%
C	15%
D	35%

Q1. In D, the ratio of chicken fry to fish curry orders is 3:4, and the total number of dine-in chicken fry orders is 5 and rest are take away. Find the take away chicken fry orders is what percentage of veg orders placed in C. (non-veg= chicken fry to fish curry)

- (a) 28
- (b) 18
- (c) 38
- (d) 48
- (e) 58

Ans.(a)

Q2. The selling price of non- veg orders is 50% more than the veg orders for all the restaurants and the revenue generate by selling all the veg orders by B is Rs.M. Find the ratio revenue of 25% veg orders sold by A to 50% non-veg orders sold by D.

- (a) 2:7
- (b) 7:2
- (c) 1:3
- (d) CND
- (e) None of these



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Ans.(a)

Q3. Find the veg orders delivered by C is what percentage of non-veg orders delivered by A and C.

- (a) 133.33
- (b) 153.33
- (c) 113.33
- (d) 83.33
- (e) 125.33

Ans.(b)

Q4. Restaurant E, sold 75% more veg orders then veg orders sold by A and the ratio of total orders sold by E to D is 2:1, then find the non-veg orders sold by E.

- (a) 120
- (b) 100
- (c) 81
- (d) 90
- (e) 125

Ans.(c)

Q5. The ratio of 5 rating to 3 rating given by the customers on veg orders delivered by D is 1:4 and percentage of rating 3 with comment is 40% more than rating 3 with no comment. Find the rating 3 with no comment is what percentage more/less than total orders placed by B.

- (a) 133.33
- (b) 106.33
- (c) 113.33
- (d) 83.33
- (e) 125.33

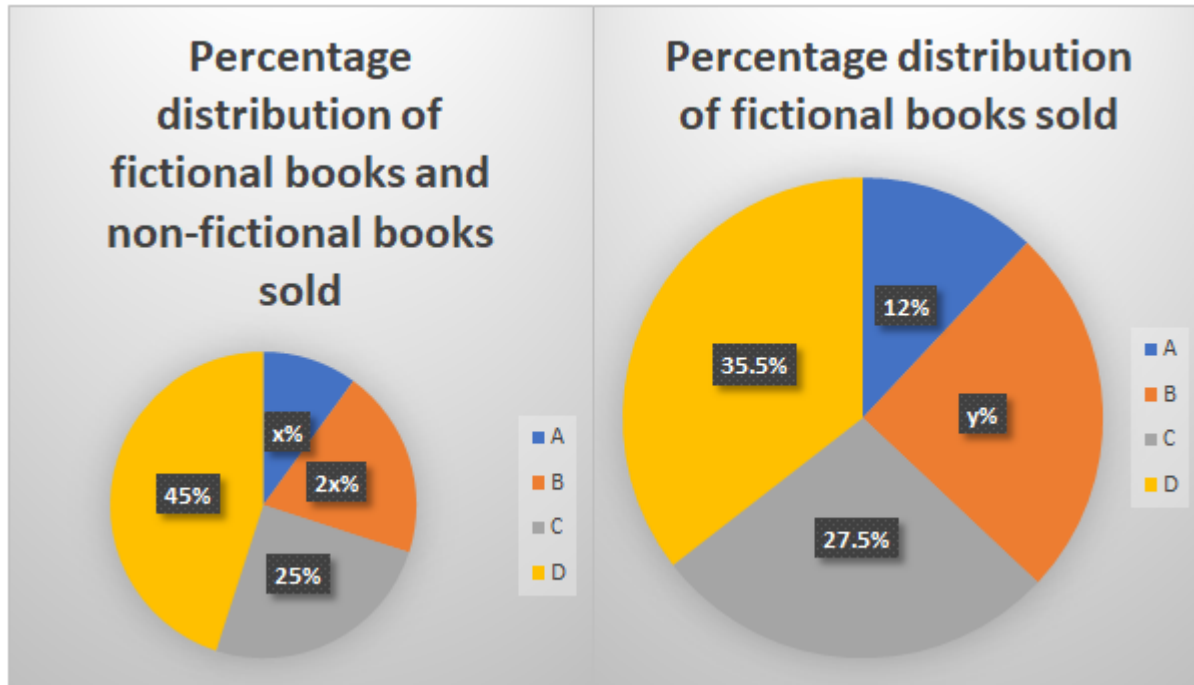
Ans.(d)

Q6. Find the difference between total veg orders delivered to non-veg orders delivered by all the restaurants.

- (a) 0
- (b) 1
- (c) 2
- (d) 3
- (e) 4

Ans.(e)

Directions (7-12): The pie chart given below shows the percentage distribution of fictional books and non-fictional books sold by four sellers and another pie chart shows the percentage distribution of fictional books sold by these sellers.



Note – (I) Total fictional books and non-fictional books sold = 1500

(II) Total fictional books sold = 1000

Q7. Find the ratio of fictional books sold by A and B together to non – fictional books sold by C.

- (a) 37:10
- (b) 10:37
- (c) 11:13
- (d) 13:12
- (e) 15:17

Ans.(a)

Q8. There are two type of fictional books Hindi and English. If the number of English fictional book sold by D is 25% of total non-fictional books sold by sold by C, then find the Hindi fictional books sold by D is what percentage of difference between total books sold by C and D.

- (a) 100%
- (b) 110%
- (c) 90%
- (d) 30%
- (e) 130%

Ans.(b)

Q9. Find the difference between average number of fictional books sold by A and B to average number of non-fictional books sold by A, B and C.

- (a) 120
- (b) 100
- (c) 110
- (d) 115
- (e) 125

Ans.(e)

Q10. If the cost of fiction books is 14.28% more than that of non-fictional book for all the sellers and total revenue generated by C after selling all the books is Rs. 5800. Find the sum of revenue generated after selling fictional books by A and D.

- (a) 7600
- (b) 7100
- (c) 8100
- (d) 7500
- (e) 7250

Ans.(a)

Q11. The ratio of total books sold by E and C is 2:1 and out of the total books sold by E, $\frac{1}{5}$ th are the non-fictional books. If the ratio of fictional books sold by E to F is 2:5, then find the fictional books sold by F.

- (a) 1500
- (b) 1000
- (c) 1100
- (d) 1150
- (e) 1250

Ans.(a)

Q12. Find the difference between total fictional books sold by C and D together and total non-fictional books sold by all the given seller.

- (a) 130
- (b) 100
- (c) 110
- (d) 115
- (e) 125

Ans.(a)

Q13. In a 124-litre mixture, the ratio of milk to water is 3 : 1. If x liters of milk and 1.5x liters of water are added to the mixture, the difference between the quantity of milk and water in the resultant mixture becomes $(2x + 2)$. Find the value of x.

- (a) 30
- (b) 24

(c) 32

(d) 15

(e) 18

Ans.(b)

Q14. 'A' purchased two beds at same price. He further sold one bed to 'B' at 60% profit and other bed to 'C' at 20% profit. 'C' further sold the bed to 'D' at 20% less than the average of cost price of bed for 'B' & 'C'. If D incurred 25% loss by selling the bed to 'E' at Rs.2100, then find the difference between the cost price of a bed for 'A' and 'D'

(a) 180

(b) 560

(c) 440

(d) 240

(e) 300

Ans.(e)

Q15. P invested Rs. X in Scheme A which offers R% simple interest for eight years after eight years the interest becomes 2.8 times of the amount he invested. If he invested Rs. (X+280) in scheme B which offers simple interest for three years at the same rate of interest, the interest received is Rs.1995, then find the value of X/2?

(a) 740

(b) 680

(c) 920

(d) 810

(e) 1020

Ans.(d)

Q16. The ratio of the present ages of Amit and his father is 1 : 4. The sum of the present ages of Amit, his father, and his mother is 140 years. Furthermore, 3 years ago, Amit's mother's age was 28 years less than 5 times Amit's age at that time. Find the present age (in years) of Amit.

(a) 18

(b) 23

(c) 25

(d) 14

(e) 31

Ans.(a)

Q17. The Highest Common Factor (HCF) of a number x and 630 is 70. The Least Common Multiple (LCM) of the same number x and 60 is 420.

It is given that $x = 35y^2$, where y is a prime number.

Quantity I: $2x - 3y$ Quantity II: $198y - x$

(a) Quantity I > Quantity II

(b) Quantity I < Quantity II

- (c) Quantity I $\geq$ Quantity II
(d) Quantity I $\leq$ Quantity II
(e) Quantity I = Quantity II or no relation

Ans.(a)

Q18. Train P, running at 108 km/hr, crosses Train Q in 36 seconds when traveling in the same direction. The two trains cross each other in 30 seconds when traveling in the opposite direction. Find the ratio of the length of Train P to the length of Train Q.

- (a) 7:5
(b) 5:1
(c) 3:5
(d) 1:2
(e) Can't be determined

Ans.(e)

Q19. The average weight of 30 students in a class is 48.6 kg. The ratio of the average weight of boys to that of girls is 6 : 5. If the average weight of the girls is 9 kg less than the average weight of the boys, find the total number of girls in the class.

- (a) 12
(b) 18
(c) 15
(d) 24
(e) 8

Ans.(b)

Q20. A person spends 40% of their monthly income on rent and 15% on other items. From the remaining income, 30% is spent on groceries, and the rest is saved. If the difference between the amount spent on groceries and the amount saved is Rs 8999.99, find the difference between the amount (in Rs) spent on rent and the amount spent on groceries.

- (a) 13250
(b) 14550
(c) 19200
(d) 18500
(e) 15150

Ans.(a)

Q21. Two boats, A and B, are operating in the same stream. The downstream speed of Boat A is equal to the upstream speed of Boat B. The ratio of the upstream speed of Boat A to the downstream speed of Boat B is 1 : 3.

Quantity I: 500% of the speed of the stream. Quantity II: The speed of Boat B in still water.

- (a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I $\geq$ Quantity II

(d) Quantity I $\leq$ Quantity II

(e) Quantity I = Quantity II or no relation

Ans.(e)

Q22. A person invests Rs 2399.69 in Scheme A, which offers a compound interest rate of 19.99% for 2 years and 4 days. Another sum of Rs 3999.70 is invested in Scheme B for T years and 3 days at an interest rate of 9.01%. If the total interest earned from both schemes is Rs 2496, find the value of T.

(a) 8

(b) 6

(c) 3

(d) 5

(e) 4

Ans.(e)

Q23. P can complete $\frac{1}{10}$ of a work in 14 days. P and Q together can complete the same work in 42 days. If R can complete 85% of the work in $25\frac{1}{2}$ days, then in how many days will Q and R together complete $\frac{2}{3}$ of the work?

(a) 16.67

(b) 12.5

(c) $13\frac{1}{3}$

(d) 14.28

(e) 19

Ans.(c)

Q24. A and B enter into a partnership by investing Rs 4400 and Rs 3000 respectively. After x months, B withdrew Rs 1200. If the ratio of the annual profit of A to B is 17: 11, find the value of x.

(a) 10

(b) 5

(c) 9

(d) 7

(e) None of these

Ans.(e)

Q25. The marked price of item A is twice that of item B. Item A is sold at a discount of 40%, while item B is sold with a flat discount of Rs 800. The combined cost price (CP) of both items is Rs 4000. If the overall transaction results in a loss of 10%, calculate the marked price of item A.

(a) 4400

(b) 3800

(c) 4000

(d) 5000

(e) 6500

Ans.(c)

Q26. The ratio of the curved surface area of a cylinder to the area of its base is 3 : 2. If the volume of the cylinder is 6468 cubic cm, find the height of the cylinder (in cm).

- (a) 14.5
- (b) 12.5
- (c) 11
- (d) 10.5
- (e) 17.5

Ans.(d)

Q27. The radius of circles X is 25% less than that of circle Y and the sum of circumference of circle X and diameter of circle Y is 188 cm. If the ratio of height of a right angle triangle to the radius of circle Y is 5 : 4 and area of triangle is 350 cm square, then find based of the triangle?

- (a) 20 cm
- (b) 16 cm
- (c) 18 cm
- (d) 24 cm
- (e) 30 cm

Ans.(a)

Q28. Set A consists of 5 distinct prime number. Set B consists of 5 consecutive odd numbers. How many numbers in set A are greater than or less than the second smallest number in set B.

Statement I- The product of the largest number in set B and smallest number in Set A is 55.

Statement II- The sum of the smallest number in set A and one of the numbers in set B is 10 and their product is greater than 21.

The following questions are accompanied by two statements (i) and (ii). You have to determine which statement(s) is/are necessary/sufficient to answer the question.

- (a) Statement I alone is sufficient.
- (b) Statement II alone is sufficient.
- (c) Both statements together are sufficient.
- (d) either Statements I or II together are sufficient.
- (e) neither Statements I nor II together are not sufficient.

Ans.(b)

Q29. What is the perimeter of a circle? Statement I. The side of a square is equal to the diameter of the circle.

Statement II. Length of a square equals half of the length of a rectangle whose perimeter is 80 cm and ratio of length to breadth is 3:2.

The following questions are accompanied by two statements (i) and (ii). You have to determine which statement(s) is/are necessary/sufficient to answer the question.

- (a) Statement I alone is sufficient.
- (b) Statement II alone is sufficient.
- (c) Both statements together are sufficient.
- (d) either Statements I or II together are sufficient.

(e) neither Statements I nor II together are not sufficient.

Ans.(c)

Q30. Find the ratio of males travelling on Sunday to females travelling on Tuesday.

Read the information carefully and answer the following questions. The number of males travelling on Tuesday is 30 less than the number of males travelling on Sunday. The number of females travelling on Tuesday is 2 less than the number of females travelling on Monday. On Sunday: The total number of males travelling is 60% of the total males and females travelling. On Monday: The total number of males travelling is 75% of the total males and females travelling. On Tuesday: The total number of males and females travelling is 40 less than the average of the total males and females who travelled on Sunday and Monday.

Note - 260 males and females travel in three days (i.e. Sunday, Monday, and Tuesday).

- (a) 1:7
- (b) 4:1
- (c) 4:3
- (d) CND
- (e) None of these

Ans.(b)

Q31. Find the difference between males and females in all the given days.

Read the information carefully and answer the following questions. The number of males travelling on Tuesday is 30 less than the number of males travelling on Sunday. The number of females travelling on Tuesday is 2 less than the number of females travelling on Monday. On Sunday: The total number of males travelling is 60% of the total males and females travelling. On Monday: The total number of males travelling is 75% of the total males and females travelling. On Tuesday: The total number of males and females travelling is 40 less than the average of the total males and females who travelled on Sunday and Monday.

Note - 260 males and females travel in three days (i.e. Sunday, Monday, and Tuesday).

- (a) 108
- (b) 105
- (c) 88
- (d) 84
- (e) 90

Ans.(c)

Q32. Find the males travelling on Sunday and Monday together is what percentage of total people travelling on Sunday and Monday.

Read the information carefully and answer the following questions. The number of males travelling on Tuesday is 30 less than the number of males travelling on Sunday. The number of females travelling on Tuesday is 2 less than the number of females travelling on Monday. On Sunday: The total number of males travelling is 60% of the total males and females travelling. On Monday: The total number of males travelling is 75% of the total males and females travelling. On Tuesday: The total number of males and

females travelling is 40 less than the average of the total males and females who travelled on Sunday and Monday.

Note - 260 males and females travel in three days (i.e. Sunday, Monday, and Tuesday).

(a) 66

(b) 72

(c) 25

(d) 16

(e) 32

Ans.(a)

Q33. Total Males and females travelling on Wednesday is 50% more than total females working in all the given days. Find the difference between total males and females working on Wednesday and females working on Monday.

Read the information carefully and answer the following questions. The number of males travelling on Tuesday is 30 less than the number of males travelling on Sunday. The number of females travelling on Tuesday is 2 less than the number of females travelling on Monday. On Sunday: The total number of males travelling is 60% of the total males and females travelling. On Monday: The total number of males travelling is 75% of the total males and females travelling. On Tuesday: The total number of males and females travelling is 40 less than the average of the total males and females who travelled on Sunday and Monday.

Note - 260 males and females travel in three days (i.e. Sunday, Monday, and Tuesday).

(a) 108

(b) 103

(c) 105

(d) 104

(e) 109

Ans.(e)

Q34. Find the sum of 25% less males in Monday and 50% more females in Tuesday.

Read the information carefully and answer the following questions. The number of males travelling on Tuesday is 30 less than the number of males travelling on Sunday. The number of females travelling on Tuesday is 2 less than the number of females travelling on Monday. On Sunday: The total number of males travelling is 60% of the total males and females travelling. On Monday: The total number of males travelling is 75% of the total males and females travelling. On Tuesday: The total number of males and females travelling is 40 less than the average of the total males and females who travelled on Sunday and Monday.

Note - 260 males and females travel in three days (i.e. Sunday, Monday, and Tuesday).

(a) 72

(b) 36

(c) 18

(d) 25

(e) 80

Ans.(a)

Q35. 7 ? 34 70 142 286

Find the missing number in the following number series.

- (a) 16
- (b) 10
- (c) 21
- (d) 7
- (e) 14

Ans.(a)

Q36. 12 133 214 263 ? 297

Find the missing number in the following number series.

- (a) 288
- (b) 270
- (c) 289
- (d) 290
- (e) 295

Ans.(a)

Q37. 78 121 168 221 ? 341

Find the missing number in the following number series.

- (a) 210
- (b) 280
- (c) 205
- (d) 235
- (e) 225

Ans.(b)

Q38. 96 48 72 180 ? 2835

Find the missing number in the following number series.

- (a) 610
- (b) 680
- (c) 605
- (d) 635
- (e) 630

Ans.(e)

Q39. 87 ? 144 204 285 387

Find the missing number in the following number series.

- (a) 110
- (b) 100
- (c) 105
- (d) 135

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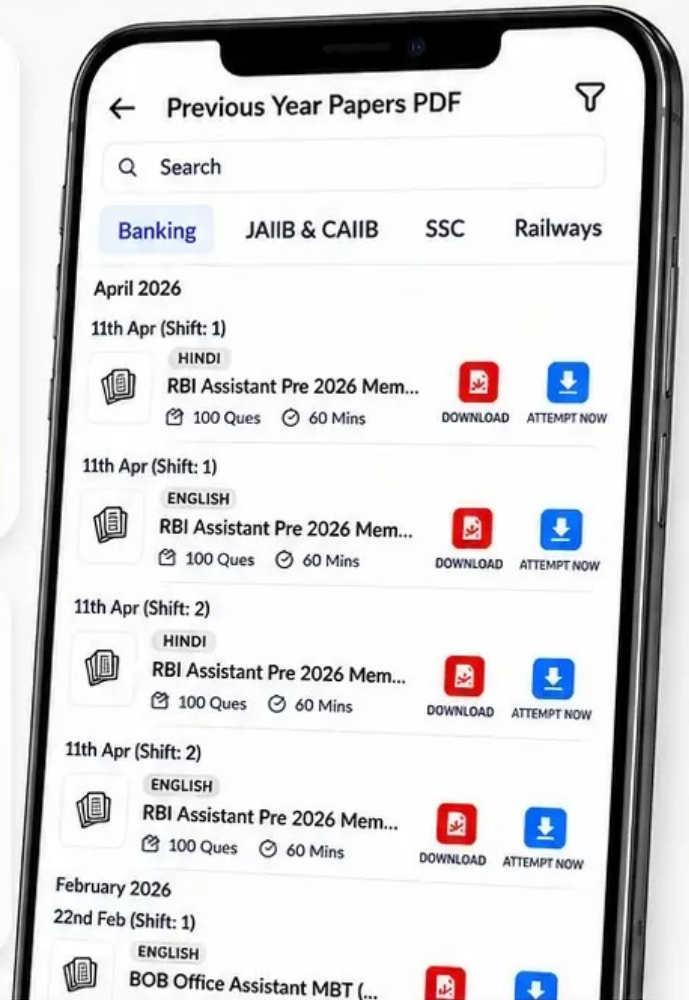
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(e) 125

Ans.(c)

Q40. 13 ? 52 130 442 2002

Find the missing number in the following number series.

(a) 51

(b) 13

(c) 26

(d) 39

(e) 35

Ans.(c)

