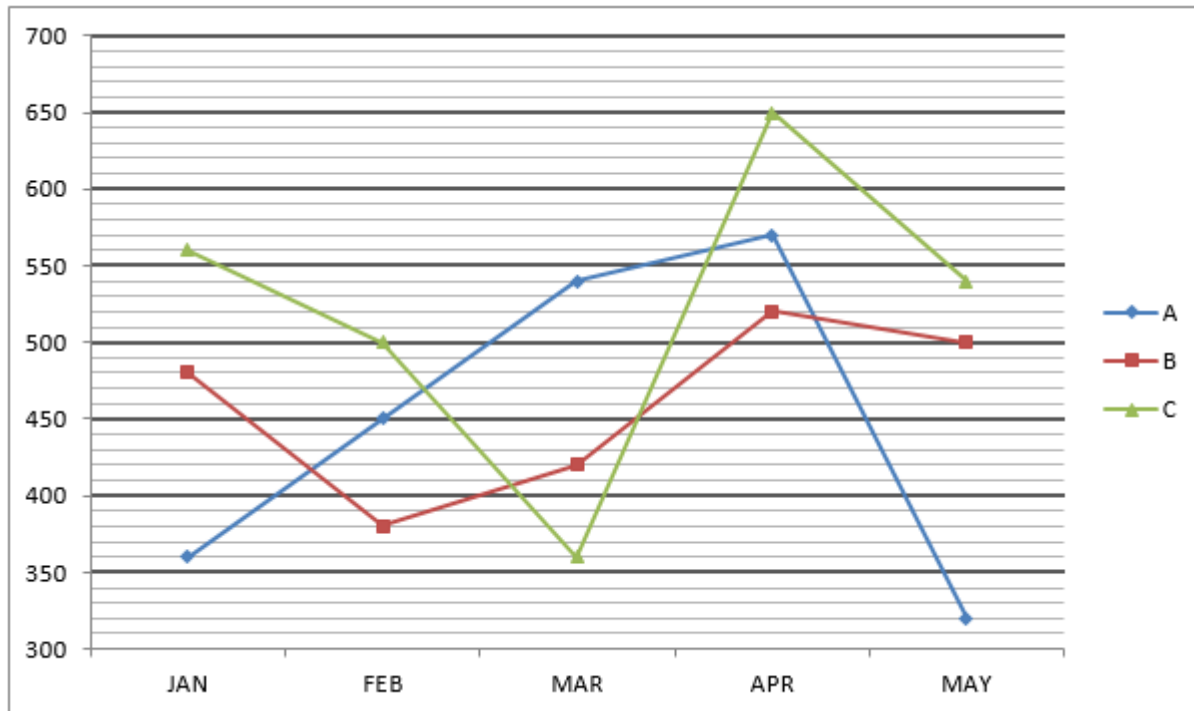


IBPS RRB PO Mains Quantitative Aptitude 2019 Memory Based

Directions (1-5): Following Line Graph given provides the details of total number of rides taken by 3 different drivers in 5 different months and the Table DI given below provides the details of percentage of total female rides taken by all the drivers in 5 different months and answer the questions accordingly.



Month/ Driver	% of female ride taken by Driver A	% of female ride taken by Driver B	% of female ride taken by Driver C
JAN	40%	25%	30%
FEB	30%	40%	44%
MAR	55%	50%	40%
APR	40%	45%	30%
MAY	60%	48%	60%

Q1. Total number of male rides taken by Driver B in January and march together is approximately what percentage more than the total female rides taken by driver A in April and may together?

- (a) 40%
- (b) 36%
- (c) 45%
- (d) 30%
- (e) 50%

Ans.(b)

Q2. Find the total number of male rides taken by all the three drivers in March together?

- (a) 652
- (b) 724
- (c) 696
- (d) 669



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(e) 628

Ans.(d)

Q3. Find the difference between total no. of female ride taken by all the 3 drivers in January to the total no. of male rides taken by all the 3 drivers in march?

(a) 327

(b) 294

(c) 268

(d) 214

(e) 237

Ans.(e)

Q4. Find the respective ratio of total no. of female rides taken by driver A in April and May together to the total no. of male ride taken by Driver B in January and march together?

(a) 14:19

(b) 17:23

(c) 18:23

(d) 19:14

(e) 23:17

Ans.(a)

Q5. Find the total number of female rides taken by Driver B in all the five months together?

(a) 848

(b) 956

(c) 984

(d) 918

(e) 884

Ans.(b)

Q6. A basket contains 8 Blue, 5 Red and 6 Green balls. 3 Balls are drawn from the basket, then find the probability of getting all 3 balls drawn are of different colors?

(a) $80/323$

(b) $883/969$

(c) $73/223$

(d) $86/969$

(e) $67/173$

Ans.(b)

Q7. Suresh was married 14 yrs ago and his present age is $3/2$ times of the age at the time of his marriage. If his son's age is $1/3$ rd of his present age, then find the age of his son.

(a) 16 yrs

(b) 18 yrs

(c) 14 yrs

(d) 12 yrs

(e) 20 yrs

Ans.(c)

Q8. A Square and an equilateral triangle have the same area. If the perimeter of the square is 88 cm , then find the area of the equilateral triangle is?

- (a) 441 cm^2
- (b) 400 cm^2
- (c) 484 cm^2
- (d) 324 cm^2
- (e) 576 cm^2

Ans.(c)

Q9. A, B and C together can complete a work in 8 days and A alone can complete the same work in 24 days. If A and B started the work and after 2 days C also joined them, then remaining work was completed by A, B and C together in $6\frac{4}{5}$ days. Find in how many days B alone can complete the whole work?

- (a) 28 days
- (b) 36 days
- (c) 24 days
- (d) 32 days
- (e) 30 days

Ans.(e)

Q10. In a mixture of milk and water, the proportion of milk by weight is 60%. If from the 80 gm mixture, 20 gm of mixture is taken out and 6 gm of pure water is added to the mixture then find the ratio of milk and water in the new mixture.

- (a) 5 : 6
- (b) 6 : 5
- (c) 4 : 3
- (d) 3 : 2
- (e) 7 : 6

Ans.(b)

Q11. Three persons A, B and C started a business by investing in the ratio of $\frac{2}{3} : \frac{1}{2} : \frac{3}{4}$. After 5 months, B increases his investment by $\frac{2}{3}$ rd of his initial amount. If after 12 months, the difference of the profit shares of A and C is Rs. 1,350 then find the profit share of B.

- (a) Rs. 11,500
- (b) Rs. 11,200
- (c) Rs. 12,250
- (d) Rs. 11,250
- (e) Rs. 10,250

Ans.(d)

Directions (12-16): The following Table DI shows the quantity of waste (Dry and Wet) picked by a truck on 5 different days. The capacity of the truck from Monday to Wednesday is 180 kg and for rest two days is 150 kg.

Day	Quantity of wet waste	Ratio of wet to dry waste	Difference between dry and wet waste. (wet>dry)
Monday	-	5 : 4	20 kg
Tuesday	110 kg	-	22 kg
Wednesday	99 kg	9 : 7	-
Thursday	84 kg	7 : y	24 kg
Friday	-	12 : 7	40 kg

Note:- If the waste produce in a day is greater than the capacity of the truck, then the extra amount of waste will be picked on next day.

Q12. If on Wednesday the truck picks only 80% of the waste of his capacity, then find the difference between the quantity picked of wet waste and dry waste on the same day? (priority given to wet waste)

- (a) 64 kg
- (b) 48 kg
- (c) 62 kg
- (d) 54 kg
- (e) 42 kg

Ans.(d)

Q13. What is the value of 'y'?

- (a) 4
- (b) 5
- (c) 6
- (d) 3
- (e) 8

Ans.(b)

Q14. Find the ratio of total dry waste produced on Monday, Tuesday and Friday together to wet waste produced on Wednesday and Thursday together?

- (a) 194 : 218
- (b) 185 : 212
- (c) 183 : 224
- (d) 212 : 185
- (e) 224 : 183

Ans.(e)

Q15. What is the amount of waste left by the end of the Wednesday?

- (a) 18 kg
- (b) 16 kg
- (c) 14 kg
- (d) 20 kg

(e) 12 kg

Ans.(c)

Q16. Find the total quantity of dry waste on all the five days together?

(a) 381 kg

(b) 413 kg

(c) 361 kg

(d) 337 kg

(e) 321 kg

Ans.(c)

Q17.

300,	324,	384,	504,	P,	1050
450,	474,	Q,	654,	864,	1200
200,	224,	284,	404,	R,	950

Given questions are based on a missing series pattern and following that pattern find the relation between P,Q and R.

(a) $P > Q < R$

(b) $P < Q < R$

(c) $P = Q > R$

(d) $P < Q = R$

(e) $P < Q > R$

Ans.(a)

Q18.

2700,	5400,	P,	7200,	1440,	8640
2100,	Q,	1400,	5600,	1120,	6720
1500,	3000,	1000,	R,	800,	4800

Given questions are based on a missing series pattern and following that pattern find the relation between P,Q and R.

(a) $P > Q > R$

(b) $P < Q = R$

(c) $P < Q > R$

(d) $P = Q > R$

(e) $P < Q < R$

Ans.(c)

Q19.

35,	70,	210,	P,	4200,	25200
140,	280,	Q,	3360,	16800,	100800
40,	80,	240,	R,	4800,	28800

Given questions are based on a missing series pattern and following that pattern find the relation between P,Q and R.

- (a) $P > Q < R$
- (b) $P < Q > R$
- (c) $P < Q < R$
- (d) $P = Q < R$
- (e) $P > Q > R$

Ans.(d)

Q20.

7,	15,	47,	191,	Q,	5754
9,	19,	59,	P,	1199,	7199
11,	23,	71,	287,	R,	8639

Given questions are based on a missing series pattern and following that pattern find the relation between P,Q and R.

- (a) $P > Q < R$
- (b) $P < Q > R$
- (c) $P < Q < R$
- (d) $P = Q < R$
- (e) $P > Q > R$

Ans.(c)

Q21.

I. $2x^2 + 11x + 12 = 0$

II. $8y^2 - 22y - 21 = 0$

In each of the following questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or no relation can be established between x and y.

Ans.(c)

Q22.

I. $x^2 - 17x - 60 = 0$

II. $y^2 + 42y + 185 = 0$

In each of the following questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or no relation can be established between x and y.

Ans.(a)

Q23.

I. $x^2 + 41x + 420 = 0$

II. $6y^2 - 11y - 10 = 0$

In each of the following questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or no relation can be established between x and y .

Ans.(c)

Q24.

I. $x^2 - 8x - 273 = 0$

II. $y^2 + 6y - 432 = 0$

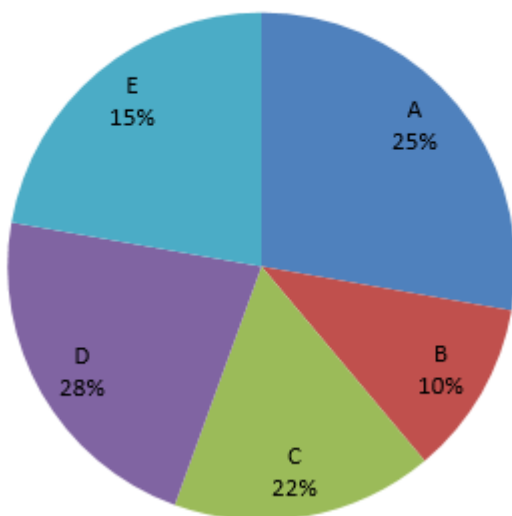
In each of the following questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or no relation can be established between x and y .

Ans.(e)

Directions (25-29): Given pie chart provides the details of total number of patients visited to different doctors for their problem and the table provides the details of fees of different doctors. Read the instruction carefully and answer the question accordingly.

Total Patients = 400



Note:-

A and B are Junior Doctor

C and D are Senior Doctor

E is Dean

Doctor's Profile	Fees (in Rs)	Additional charge on fees
Junior Doctor	1000	15%
Senior Doctor	1500	20%
Dean	2000	25%

Q25. What is the difference between the total fees received by Doctor C and the total fees received by Doctor D?

- (a) Rs 40800
- (b) Rs 43200
- (c) Rs 38400
- (d) Rs 36800
- (e) Rs 34200

Ans.(b)

Q26. Find the respective ratio of total fees received by Doctor A from all its patient to the total fees received by Doctor E from all its patients

- (a) 27 : 31
- (b) 30 : 23
- (c) 23 : 30
- (d) 31: 27
- (e) 29 : 31

Ans.(c)

Q27. Total fees received by junior doctor B is what percentage more/less than the total fees received by Doctor E?

- (a) $69\frac{1}{3}\%$
- (b) $60\frac{2}{3}\%$
- (c) 72%
- (d) $68\frac{2}{3}\%$
- (e) 64%

Ans.(a)

Q28. If the Doctor E's fees is increased by 15% from the current fees, then find the total fees received by Doctor E when the fees is increased? (in Rs)

- (a) 1,72,500
- (b) 1,78,500
- (c) 2,12,000
- (d) 1,92,500
- (e) 2,04,000

Ans.(a)

Q29. Find the average of total fees received by both Junior Doctors and Senior Doctors together?

- (a) Rs 1,28,500
- (b) Rs 1,25,800
- (c) Rs 1,30,250
- (d) Rs 1,22,350
- (e) Rs 1,35,600

Ans.(c)

Q30. If 50% of male who were travelling from B to C do not have a valid ticket and 60% of the female travelling from B to C do not have a valid ticket, then find the number of passengers who are travelling from B to C with invalid ticket ?

Study the given passage carefully and answer the following questions

A train is travelling from station A to E . At station A, 80 person board in the ratio of male to female of 9 : 7.

At station B, 15 men got down and 5 women boarded the train. At station C, half of the women got down and the same number of men boarded the train

At station D, x number of male got down and now the ratio of male to female in train is 7 : 4

- (a) 43
- (b) 39
- (c) 47
- (d) 49
- (e) 51

Ans.(b)

Q31. The number of females travelling from station B to C is approximately how much percent more than the number of males travelling from station D to E?

Study the given passage carefully and answer the following questions

A train is travelling from station A to E . At station A, 80 person board in the ratio of male to female of 9 : 7.

At station B, 15 men got down and 5 women boarded the train. At station C, half of the women got down and the same number of men boarded the train

At station D, x number of male got down and now the ratio of male to female in train is 7 : 4

- (a) 10%
- (b) 21%
- (c) 18%
- (d) 14%
- (e) 24%

Ans.(d)

Q32. Find the difference between the passengers travelling from starting point to destination point?

Study the given passage carefully and answer the following questions

A train is travelling from station A to E . At station A, 80 person board in the ratio of male to female of 9 : 7.

At station B, 15 men got down and 5 women boarded the train. At station C, half of the women got down and the same number of men boarded the train

At station D, x number of male got down and now the ratio of male to female in train is 7 : 4

- (a) 25
- (b) 30
- (c) 34
- (d) 38
- (e) none of these

Ans.(a)

Q33. Which of the following is true?

(A)The number of females travelling from station A to B is equal to the no. of males travelling from station D to E

(B)The total number of passengers travelling from Station C to D is 45% of the no. of males who boarded from the starting point

(C)The difference between the no. of male and female travelling from station D to E is half of the difference between the no. of males and females travelling from station C to D

Study the given passage carefully and answer the following questions

A train is travelling from station A to E . At station A, 80 person board in the ratio of male to female of 9 : 7.

At station B, 15 men got down and 5 women boarded the train. At station C, half of the women got down and the same number of men boarded the train

At station D, x number of male got down and now the ratio of male to female in train is 7 : 4

- (a) Only A
- (b) Only C
- (c) Only A & C
- (d) Only B & C
- (e) All A, B and C

Ans.(c)

Q34. Find the ratio of total no. of passengers travelling from station D to E and B to C?

Study the given passage carefully and answer the following questions

A train is travelling from station A to E . At station A, 80 person board in the ratio of male to female of 9 : 7.

At station B, 15 men got down and 5 women boarded the train. At station C, half of the women got down and the same number of men boarded the train

At station D, x number of male got down and now the ratio of male to female in train is 7 : 4

- (a) 17 : 13
- (b) 11 : 14
- (c) 13 : 17
- (d) 14 : 11
- (e) 17 : 19

Ans.(b)

Q35. Total distance between A and B is 792 km and Car P starts from station A at 8 a.m with speed 64 km/hr towards B and Car Q starts from station B at 11 a.m with speed 86 km/hr towards A. Find the distance from station B when both cars will meet each other ?

- (a) 430 km
- (b) 258 km
- (c) 344 km
- (d) 312 km
- (e) 384 km

Ans.(c)

Q36. A,B and C invested Rs 5500,Rs 4500 and Rs 6000 for three years in a partnership. After 1 year, A decreased his investment by Rs 1000, B increased his investment by Rs.500 and C's investment remains the same for the whole period of time. If the total profit at the end of 3 years is Rs 9400, then find the profit share of C?

- (a) Rs 4200
- (b) Rs 3600
- (c) Rs 3800
- (d) Rs 4000
- (e) Rs 3000

Ans.(b)

Q37. Quantity I:By selling 15 apples, a seller gains the selling price of 2 apples. Calculate his gain percentage.

Quantity II: 25% profit is gained when an article is sold for 625 rupees. Calculate the loss % when the same article is sold for 435 rupees.

Each of the following question is followed by two quantities I, and II. You have to determine the value of the quantities using the information provided and compare the quantities to answer as per the instruction set provided below.

- (a) Quantity I>Quantity II
- (b) Quantity I≥Quantity II
- (c) Quantity I<Quantity II
- (d) Quantity I≤Quantity II
- (e) Quantity I=Quantity II or no relation

Ans.(a)

Q38. A train travelling at 54 kmph crosses a platform in 25 seconds and a man standing on the same platform in 12 seconds

Quantity I: Length of the train.

Quantity II: Length of the platform.

Each of the following question is followed by two quantities I, and II. You have to determine the value of the quantities using the information provided and compare the quantities to answer as per the instruction set provided below.

- (a) Quantity I>Quantity II
- (b) Quantity I≥Quantity II
- (c) Quantity I<Quantity II

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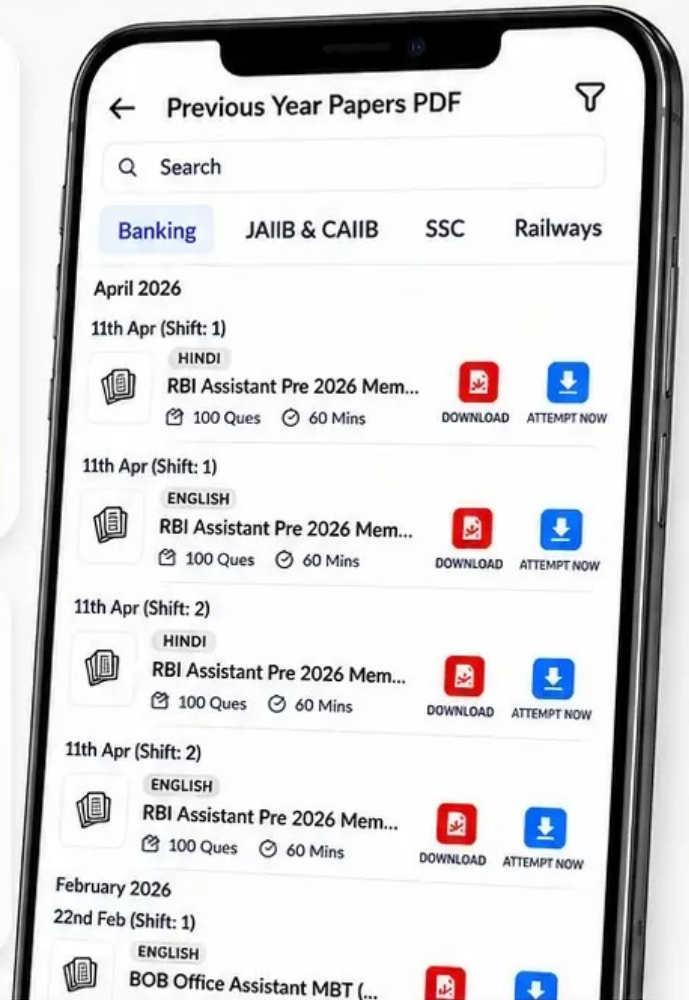
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(d) Quantity I $\leq$ Quantity II

(e) Quantity I = Quantity II or no relation

Ans.(c)

Q39. P works twice as fast as Q, whereas P and Q together can work 3 times as fast as R. P, Q and R together can do the same work in $15/2$ days

Quantity I: Time taken by P and Q together to complete the work.

Quantity II: Time taken by Q and R together to complete the work.

Each of the following question is followed by two quantities I, and II. You have to determine the value of the quantities using the information provided and compare the quantities to answer as per the instruction set provided below.

(a) Quantity I $>$ Quantity II

(b) Quantity I $\geq$ Quantity II

(c) Quantity I $<$ Quantity II

(d) Quantity I $\leq$ Quantity II

(e) Quantity I = Quantity II or no relation

Ans.(c)

Q40. The age of Manan is 50% more than that the age of Shikhar. The age of Rohit is 20% less than the age of Manan. The age of Krunal is 10% less than the age of Rohit.

Quantity I: By what percent the age of Rohit is more than the age of Shikhar.

Quantity II: By what percent the age of Krunal is more than the age of Shikhar.

Each of the following question is followed by two quantities I, and II. You have to determine the value of the quantities using the information provided and compare the quantities to answer as per the instruction set provided below.

(a) Quantity I $>$ Quantity II

(b) Quantity I $\geq$ Quantity II

(c) Quantity I $<$ Quantity II

(d) Quantity I $\leq$ Quantity II

(e) Quantity I = Quantity II or no relation

Ans.(a)