

50 RATIO & PROPORTION PRACTICE QUESTIONS

For Banking Exams

50 Ratio & Proportion Practice Questions

Q1) The salaries of A,B and C are in the ratio 5:3:2.If the increments of 20% ,10% and 20% are allowed in their salaries, then what will be the new ratio of their salaries ?

- A) 22:11:9
- B) 22:10:8
- C) 20:11:8
- D) 20:10:9

Correct Answer: "C"

Q2) A sum of money is to be distributed among P, Q, R and S in the proportion 2:5:6:7, If R get Rs.500 more than S. What is P's share?

- A)500
- B)700
- C)1000
- D)1200

Correct Answer: "C"

Q3) The sum of the three number is 68. If the ratio of the first to second is 3:2 and that of the second to the third is 5:3 , then the second number is

- A) 21
- B) 22
- C) 23
- D) 24

Correct Answer: "B"

Q4) A Zoo has 66 fishes, some white and rest orange. Which of the following could be the ratio of white to orange fishes in the zoo?

- A) 1:7
- B) 2:9
- C) 3:7
- D) 2:5

Correct Answer: "B"

Q5) In a bag there are coins of 25p, 10p and 5p in the ratio 1:2:3. If there are Rs.45 in all then find how many 25p coins are there ?

- A) 60
- B) 65
- C) 70
- D) 75

Correct Answer: "D"

Q6) The ratio of boys and girls in the school is 7:9 when 22 new boys are joined in this school then the ratio become 9:10. How many girls in this school?

- A) 180
- B) 200
- C) 160
- D) 220

Correct Answer: "A"

Q7) $x:y = 7:4$ then $(4x+7y) : (7x+4y)$

- A) 65:56
- B) 56:65
- C) 34:45
- D) 13:18

Correct Answer: "B"

Q8) The ratio of monthly income of A and B in the ratio is 6:5 and the ratio of their expenditure is 9:7. If each saves Rs.1500. Then the sum of their salary is

- A) 11,000
- B) 9,000
- C) 1,0000
- D) 12,000

Correct Answer: "A"

Q9) The ratio of two persons A and B salaries in the ratio 12:7 if 12% increased salary yearly then what will be the B Salary after 2 yrs.

- A) 7808
- B) 8700
- C) 7,500
- D) 8781

Correct Answer: "D"

Q10) The students in 3 classes are in the ratio 3:4:5. If 20 students are added in each class, the ratio becomes 5:6:7. Find the total number of students in all the 3 classes now ?

- A) 160
- B) 170
- C) 180
- D) 200

Correct Answer: "C"

Q11) A horse takes 8 steps for every 5 steps of a fox, but 6 steps of a fox are equal to the 3 steps of the horse. What is the ratio of the speed of horse to the fox?

- A) 16:5
- B) 20:19
- C) 18:23
- D) 17:21

Correct Answer: "B"

Q12) A started a business with Rs.32,000 after 4 months B joins with the business by investing Rs.48,000. At the end of the year, in what ratio should they share their profit ?

- A) 8:7
- B) 7:6
- C) 5:7
- D) 9:5

Correct Answer: "A"

Q13) A working partner gets 25% as his commission after his commission is paid that is equal to Rs.7500, then what is the total profit ?

- A) Rs.32,000
- B) Rs.30,000
- C) Rs.37,500
- D) Rs.40,000

Correct Answer: "C"

Q14) Equal quantities of 3 mixtures of milk and water are mixed in the ratio 1:3, 2:3 and 3:4. The ratio of water and milk in the new mixture is

- A) 45:76
- B) 151:269
- C) 123:154
- D) 145:245

Correct Answer: "B"

Q15) The ratio of income of X and Y is 4:3. The sum of their expenditure is Rs.12,000 and the amount of savings of X is equal to the amount of expenditure of Y. What is the salary of Y?

- A) 9000
- B) 7000
- C) 12000
- D) 15000

Correct Answer: "A"

Q16) When 7 is added to the numerator and denominator of the fraction, then the new ratio of numerator and denominator becomes 13:19, what is the original ratio?

- A) 11:13
- B) 7:9
- C) 4:7
- D) Can't be determined

Correct Answer: "D"

Q17) In a mixture 60 litres, the ratio of milk and water is 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is:

- A) 20 litres
- B) 30 litres
- C) 40 litres
- D) 60 litres

Correct Answer: "D"

Q18) Salaries of Ravi and Sumit are in the ratio 2 : 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40 : 57. What is Sumit's salary?

- A) Rs. 17,000
- B) Rs. 20,000
- C) Rs. 25,500
- D) Rs. 38,000

Correct Answer: "D"

Q19) The ratio of age of Krishna and her mother is 5:12 and difference of their ages is 21. What will be the ratio of their ages after 3 years?

- A) 7:15
- B) 11:5
- C) 13:7
- D) 9:13

Correct Answer: "D"

Q20) A working partner gets 25% as his commissions after his commissions paid that is equal to Rs.7500, then what is the total profit ?

- A) Rs.32,000
- B) Rs.30,000
- C) Rs.37,500
- D) Rs.40,000

Correct Answer: "C"

Q21) The ratio of income of X and Y is 4:3. The sum of their expenditure is Rs.12,000 and the amount of savings is X is equal to the amount of expenditure of Y. What is the salary of Y?

- A) 9000
- B) 7000
- C) 12000
- D) 15000

Correct Answer: "A"

Q22) A school has 4 sections of class 12, such that half the number of students of 1st section, $\frac{1}{3}$ rd of 2nd section, $\frac{1}{4}$ th of 3rd section and $\frac{1}{5}$ th of the 4th section are equal. If total number of students in class 12 is 420, find the number of students in sections 1st and 2nd.

- A) 180
- B) 120
- C) 240
- D) 150

Correct Answer: "D"

Q23) A, B and C divide Rs 4200 among themselves in the ratio 7 : 8 : 6. If Rs 200 is added to each of their shares, what is the new ratio in which they will receive the money?

- A) 9 : 8 : 7
- B) 8 : 9 : 7
- C) 8 : 9 : 8
- D) 9 : 10 : 8

Correct Answer: "B"

Q24) The ratio of the incomes of A and B last year was 9 : 13. Ratio of their incomes of last year to this year is 9 : 10 and 13 : 15 respectively. The sum of their present incomes is Rs 50,000. What is the present income of B?

- A) Rs 32,000
- B) Rs 24,000
- C) Rs 20,000
- D) Rs 30,000

Correct Answer: "D"

Q25) Rs 650 was divided among 3 children in the ratio 2 : 4 : 7. Had it been divided in the ratio $\frac{1}{2} : \frac{1}{4} : \frac{1}{7}$. Who would have gained the most and by how much?

- A) C, Rs 246
- B) C, Rs 264
- C) B, Rs 18
- D) A, Rs 264

Correct Answer: "D"

Q26) The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?

- A) 3 : 3 : 10
- B) 10 : 11 : 20
- C) 23 : 33 : 60
- D) Cannot be determined

Correct Answer: "C"

Q27) The incomes of A and B are in the ratio 1 : 2 and their expenditures are in the ratio 2 : 5. If A saves Rs 20,000 and B saves Rs 35,000, what is the total income of A and B?

- A) Rs 30,000
- B) Rs 90,000
- C) Rs 90,000
- D) Rs 60,000

Correct Answer: "C"

Q28) Rs 5750 is divided among A, B, and C such that if their share be reduced by Rs 10, Rs 15 and Rs 25 respectively, the remainder amounts with them shall be in the ratio 4 : 6 : 9. What was C's share then?

- A) Rs 2700
- B) Rs 2725
- C) Rs 2750
- D) Rs 2625

Correct Answer: "B"

Q29) The ratio of income of A and B is 2:3. The sum of their expenditure is Rs.8000 and the amount of savings of A is equal to the amount of expenditure of B. What is the their ratio of sum of income to their sum of savings?

- A) 5:3
- B) 3:2
- C) 4:3
- D) 3:1

Correct Answer: "A"

Q30) There are two numbers. When 25% of the first number is added to the second number, the resultant number is 1.5 times the first number. What is the ratio of 1st number to the 2nd number?

- A) 3:5
- B) 5:4
- C) 4:5
- D) 2:3

Correct Answer: "C"

Q31) In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 1 : 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there?

- A) 50
- B) 100
- C) 150
- D) 200

Correct Answer: "C"

Q32) 180 sweets are divided among friends A, B, C and D in which B and C are brothers also such that sweets divided between A and B are in the ratio 2 : 3, between B and C in the ratio 2 : 5 and between C and D in ratio 3 : 4. What is the number of sweets received by the brothers together?

- A) 78
- B) 84
- C) 92
- D) 102

Correct Answer: "B"

Q33) Consider two alloys A and B. 50 kg of alloy A is mixed with 70 kg of alloy B. A contains brass and copper in the ratio 3 : 2, and B contains them in the ratio 4 : 3 respectively. What is the ratio of copper to brass in the mixture?

- A) 8 : 5
- B) 7 : 5
- C) 5 : 11
- D) 5 : 7

Correct Answer: "D"

Q34) The cost of a diamond varies as the square of its weight. A diamond weighing 20 decigrams costs Rs. 4,800. Find the cost of a diamond of the same kind weighing 8 decigrams.

- A) Rs 762
- B) Rs 760
- C) Rs 764
- D) Rs 768

Correct Answer: "D"

Q35) A bag contains 25p, 50p and 1Re coins in the ratio of 2 : 4 : 5 respectively. If the total money in the bag is Rs 75, find the number of 50p coins in the bag.

- A) 45
- B) 50
- C) 25
- D) 40

Correct Answer: "D"

Q36) A is directly proportional to B and also inversely proportional to the square of C. When B = 16 and C = 2, A = 36. Find the value of A when B = 32 and C = 4.

- A) 25
- B) 20
- C) 18
- D) 32

Correct Answer: "C"

Q37) Two vessels contains equal quantity of solution contains milk and water in the ratio of 7:2 and 4:5 respectively. Now the solutions are mixed with each other then find the ratio of milk and water in the final solution?

- A) 11:7
- B) 11:6
- C) 11:5
- D) 11:9

Correct Answer: "A"

Q38) One year ago the ratio between Rahul salary and Rohit salary is 4:5. The ratio between their individual salary of the last year and current year is 2:3 and 3:5 respectively. If the total current salary of Rahul and Rohit is 4300. Then find the current salary of Rahul.

- A) 1200
- B) 1800
- C) 1600
- D) 2000

Correct Answer: "B"

Q39) The sum of the squares between three numbers is 5000. The ratio between the first and the second number is 3:4 and that of second and third number is 4:5. Find the difference between first and the third number.

- A) 20
- B) 30
- C) 40
- D) 50

Correct Answer: "A"

Q40) A bucket contains liquid A and B in the ratio 4:5. 36 litre of the mixture is taken out and filled with 36 litre of B. Now the ratio changes to 2:5. Find the quantity of liquid B initially.

- A) 55 ltr
- B) 56 ltr
- C) 57 ltr
- D) 58 ltr

Correct Answer: "B"

Q41) The income of Riya and Priya are in the ratio of 4:5 and their expenditure is in the ratio of 2:3. If each of them saves 2000, then find their income.

- A) 4000, 6000
- B) 4000, 5000
- C) 5000, 4000
- D) 5000, 6000

Correct Answer: "B"

Q42) Two alloys contain platinum and gold in the ratio of 1:2 and 1:3 respectively. A third alloy C is formed by mixing alloys one and alloy two in the ratio of 3:4. Find the percentage of gold in the mixture

- A) 79.2/7%
- B) 71.2/7%
- C) 73.2/7%
- D) 71.3/7%

Correct Answer: "D"

Q43) The ratio between number of girls and boys in a school is 5: 6. If 40 percent of the boys and 20 percent of the girls are scholarship holders, what percentage of the students does not get scholarship?

- A) 68%
- B) 69%
- B) 71%
- D) 80%

Correct Answer: "B"

Q44) An amount is to be divided between A, B and C in the ratio 2:3:5 respectively. If C gives 200 of his share to B the ratio among A, B and C becomes 3:5:4. What is the total sum?

- A) 5000
- B) 6000
- C) 7000
- D) 8000

Correct Answer: "B"

Q45) An amount of money is to be divided between P, Q and R in the ratio of 3:7:12. If the difference between the shares of P and Q is Rs. X, and the difference between Q and R's share is Rs.3000. Find the total amount of money?

- A) 11000
- B) 12400
- C) 13200
- D) 14300

Correct Answer: "C"

Q46) Seats for Mathematics, Science and arts in a school are in the ratio 5:7:8. There is a proposal to increase these seats by X%, Y% and Z% respectively. And the ratio of increased seats is 2:3:4, which of the following is true?

- A) $X = 50$; $Z = 40$
- B) $Y = 40$; $Z = 50$
- C) $X = 40$; $Z = 75$
- D) $X = 50$; $Z = 40$

Correct Answer: "C"

Q47) Two candles of same height are lighted at the same time. The first is consumed in 3 hours and second in 2 hours. Assuming that each candles burns at a constant rate, in how many hours after being lighted, the ratio between the first and second candles becomes 2:1?

- A) 2 hour
- B) 2.5 hour
- C) 4 hour
- D) 4.5 hour

Correct Answer: "D"

Q48) A bag contains 25p coins, 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2. If the total values of coins is X and the total amount in rupees is Y, then which of the following is true

- A) $X = 840$; $Y = 260$
- B) $X = 966$; $Y = 345$
- C) $X = 840$; $Y = 280$
- D) $X = 740$; $Y = 260$

Correct Answer: "C"

Q49) In a family, there are 'n' persons. The expenditure of rice per month is directly proportional to 4 times the square of the number of persons of the family. If one of them left the family there was a decrease in consumption of 28Kg rice per month. Then initially how many persons were in the family?

- A) 3
- B) 4
- C) 5
- D) 6

Correct Answer: "B"

Q50) In a horse racing, there are three horses, A, B and C. The Payoffs at A is 3:7, at B, is 4:9, at C, is 5:11. Sharif bets Rs. 693 on a horse which would fetch maximum amount. Luckily his horse has won. Then what is the total amount won by him?

- A) Rs.990
- B) Rs.1001
- C) Rs.1008
- D) Rs.1011

Correct Answer: "C"

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