

Quantitative Aptitude Mega Quiz for RRB

Q1. 94 is divided into two parts in such a way that the fifth part of the first and the eighth part of the second are in the ratio 3: 4. The first part is?

- (a) 30
- (b) 36
- (c) 40s
- (d) 28

Q2. The mean proportional between $(3 + \sqrt{2})$ and $(12 - \sqrt{32})$ is?

- (a) $\sqrt{7}$
- (b) $2\sqrt{7}$
- (c) 6
- (d) $\frac{(15-3\sqrt{2})}{2}$

Q3. In a school, the ratio of boys to girls is 4: 3 and the ratio of girls to teachers is 8: 1. The ratio of students to teachers is?

- (a) 56:1
- (b) 55:1
- (c) 49:3
- (d) 56:3

Q4.

If $(x^3 - y^3) : (x^2 + xy + y^2) = 5 : 1$ and $(x^2 - y^2) : (x - y) = 7 : 1$, then the ratio $2x : 3y$ equals?

- (a) 4:1
- (b) 4:3
- (c) 2:3
- (d) 3:2

Q5. Among 132 examinees of a certain school, the ratio of successful to unsuccessful students is 9: 2. Had 4 more students passed, then the ratio of successful to unsuccessful students would have been?

- (a) 14:3
- (b) 14 : 5
- (c) 28 : 3
- (d) 28 : 5



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Q6. To get the ratio $p:q$ (for $p \neq q$), one has to add a number to each term of the ratio $x:y$, the number is

- (a) $\frac{px + qy}{p - q}$
(b) $\frac{qx - py}{p - q}$
(c) $\frac{px - qy}{p - q}$
(d) $\frac{py - qx}{p - q}$

Q7. The sum of the age of a father and his son is 100 years now. 5 years ago their age were in the ratio of 2: 1. The ratio of the age of father and son after 10 years will be?

- (a) 5:3
(b) 4:3
(c) 10:7
(d) 3:5

Q8. The ratio of two numbers is 3: 4 and their HCF is 15. Then the sum of the two numbers is?

- (a) 120
(b) 115
(c) 105
(d) 110

Q9. The number of students in three classes are in the ratio 2: 3: 4. If 12 students are increased in each class, this ratio changes to 8: 11:14. The total number of students in the three classes at the beginning was?

- (a) 54
(b) 96
(c) 108
(d) 162

Q10. The average of 11 numbers is 36, whereas average of 9 of them is 34. If the remaining two numbers are in the ratio of 2: 3, find the value of the smaller number (between remaining two numbers)?

- (a) 45
(b) 48
(c) 54
(d) 36

Q11. The average income of 40 persons is Rs. 4200 and that of another 35 persons is Rs. 4000. The average income of the whole group is?

- (a) Rs. 4100
(b) Rs. $4106\frac{1}{3}$
(c) Rs. $4106\frac{2}{3}$
(d) Rs. $4108\frac{1}{3}$

Q12. The arithmetic mean of the following numbers 1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6, 6 and 7, 7, 7, 7, 7, 7, 7 is?

- (a) 4
- (b) 5
- (c) 14
- (d) 20

Q13. The average weight of first 11 persons among 12 persons is 95 kg. The weight of 12th person is 33 kg more than the average weight of all the 12 persons. The weight of the 12th person is?

- (a) 128.75 kg
- (b) 128 kg
- (c) 131 kg
- (d) 97.45 kg

Q14. A librarian purchased 50 story- books for his library. But he saw that he could get 14 more books by spending Rs. 76 more and the average price per book would be reduced by Re. 1. The average price (in Rs.) of each book he bought, was?

- (a) 9
- (b) 10
- (c) 15
- (d) 20

Q15. The average of the first 7 integers in a series of 13 consecutive odd integers is 37. What is the average of the entire series?

- (a) 37
- (b) 39
- (c) 41
- (d) 43

Q16. Nine students of a class contribute a certain sum of money. Seven of them gave Rs. 50 each and the other two gave respectively Rs. 50 and Rs. 90 more than the others. The average contribution of the class of 9 students is?

- (a) Rs. 50
- (b) Rs. 70
- (c) Rs. 100
- (d) Rs. 120

Q17. Average of n numbers is a . The first number is increased by 2, second one is increased by 4, the third one is increased by 8 and so on. The average of the new numbers is?

- (a) $a + \frac{2(2^n - 1)}{n}$
- (b) $a + \frac{(2^n - 1 - 1)}{n}$
- (c) $a + \frac{2^n - 1}{n}$
- (d) $a + \frac{(2^n - 1)}{n}$



Q18. Out of four numbers, the average of the first three is 18 and that of the last three is 16. If the last number is 19, the first is?

- (a) 18
- (b) 19
- (c) 20
- (d) 25

Q19. A man spends in 8 months as much as he earns in 6 months. He saves Rs. 6000 in a year. His average monthly income is?

- (a) Rs. 2000
- (b) Rs. 1800
- (c) Rs. 2150
- (d) Rs. 2400

Q20. Mahendra singh Dhoni had a certain average of runs for his 64 innings. In his 65th innings, he is bowled out for no score on his part. This brings down his average by 2 runs. His new average of runs is?

- (a) 130
- (b) 132
- (c) 128
- (d) 68

Q21. The cost of a house was Rs. X lakhs in 2005. After 3 years, the owner of the house sold it for 25% more than he paid it. But he has to pay a tax of 50% of the gain. The tax amount he has to pay is?

- (a) $X/2$
- (b) $X/8$
- (c) $X/4$
- (d) $X/12$

Q22. A man buys 3 cows and 8 goats in Rs. 47,200. Instead if he would have bought 8 cows and 3 goats, he had to pay Rs. 53,000 more. Cost of one cow is?

- (a) Rs. 10,000
- (b) Rs. 11,000
- (c) Rs. 12,000
- (d) Rs. 13,000

Q23. A tradesman sold an article at a loss of 20%. If the selling price had been increased by Rs. 100, there would have been a gain of 5%. The cost price of the article (in Rs.) was?

- (a) 100
- (b) 300
- (c) 500
- (d) 400

Q24. A trader purchases a watch and a wall clock for Rs. 390. He sells them making a profit of 10% on the watch and 15% on the wall clock. He earns a profit of 51.50. The difference between the original prices of the wall clock and the watch is equal to?

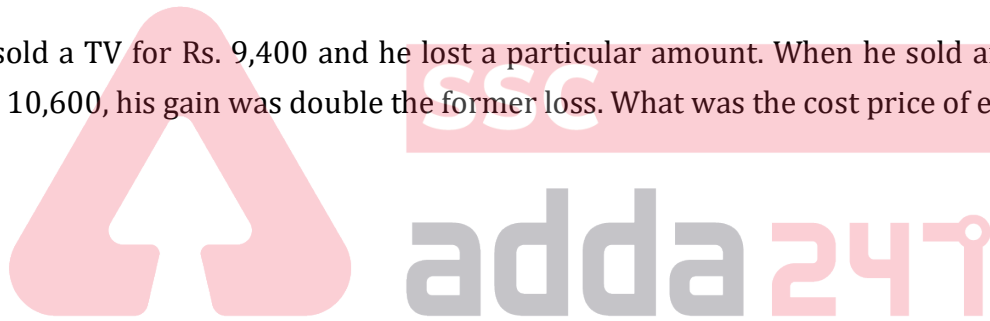
- (a) Rs. 390
- (b) Rs. 140
- (c) Rs. 110
- (d) Rs. 250

Q25. If the total cost of 73 articles having equal cost is Rs. 5,110 and the total selling price of 89 such articles is Rs. 5,607, then in the transaction, there will be?

- (a) a gain of 10%
- (b) a loss of 15%
- (c) a loss of 10%
- (d) a gain of 15%

Q26. A person sold a TV for Rs. 9,400 and he lost a particular amount. When he sold another TV of the same type at Rs. 10,600, his gain was double the former loss. What was the cost price of each TV?

- (a) Rs. 9800
- (b) Rs. 10,000
- (c) Rs. 10,050
- (d) Rs. 9850



Q27. If the selling price of an article is doubled, then its loss per cent is converted into equal profit per cent. The loss per cent on the article is?

- (a) $26\frac{2}{3}\%$
- (b) $28\frac{2}{7}\%$
- (c) $33\frac{1}{3}\%$
- (d) 34 %

Q28. A reduction of 20% in the price of rice enables a buyer to buy 5 kg more for rupees 1200. The reduced price per kg of rice will be?

- (a) 60
- (b) 48
- (c) 20
- (d) 25

Q29. Some toffees were bought at the rate of 11 for Rs. 10 and the same number at the rate of 9 for Rs. 10. If the whole lot was sold at one rupee per toffee, then the gain or loss in the whole transaction was?

- (a) Loss of 1%
- (b) Gain of 1%
- (c) Loss of 2%
- (d) Neither gain nor loss

Q30. A businessman bought an article and sold it at a loss of 5%. If he had bought it for 10% less and sold it for Rs. 33 more, he would have had a profit of 30%. The cost price of the article is?

- (a) Rs. 330
- (b) Rs. 155
- (c) Rs. 150
- (d) Rs. 300



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