50 Arithmetic Questions For SSC CGL Exam

Q1. A and B together can complete a work in 10 days. They started together but A left after 2 days and the remaining work was completed by B in 12 days. In how many days can A complete the entire work while working alone?
(a) 15
(b) 20
(c) 30
(d) 45

Q2. What will be the net discount (in percentage) after two successive discounts of 50% and 50%?
(a) 85
(b) 75
(c) 100
(d) 95

Q3. An article is sold for Rs 5330 after a discount of 18%. What is the marked price (in Rs) of the article?
(a) 6250
(b) 6450
(c) 6800
(d) 6500

Q4. Raman, Rohit and Raja are partners and invest in a business. Raman invests 1/4th of total and Rohit invest 1/3th of the total. What is the ratio of profit of Raman, Rohit and Raja respectively?
(a) 4 : 3 : 1
(b) 3 : 4 : 4
(c) 3 : 4 : 5
(d) 4 : 3 : 5

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Q5. If a - b : b - c : c - d = 1 : 2 : 3, then what is the value of (a + d) : c?

(a) 1 : 2

(b) 2 : 1

(c) 4 : 1

(d) 3 : 1

Q6. 6/7 part of a tank is filled with oil. After taking out 60 litres of oil the tank is 4/5 part full. What is the capacity (in litres) of the tank?

(a) 350

(b) 700

(c) 360

(d) 1050

Q7. Kanchan bought a clock with 25% discount on marked price. She sold it with 75% gain on the price she bought. What was her profit percentage on the marked price?

(a) 31.25

(b) 50

(c) 56.25

(d) 60

Q8. A, B and C received an amount of Rs 8400 and distributed among themselves in the ratio of 6 : 8 : 7 respectively. If they save in the ratio of 3 : 2 : 4 respectively and B saves Rs 400, then what is the ratio of the expenditures of A, B and C respectively?

(a) 6 : 8 : 7

(b) 8 : 6 : 7

(c) 9 : 14 : 10

(d) 12 : 7 : 9

Q9. The average age of 24 students is 12 years. It was observed that while calculating the average age, the age of a student was taken as 14 years instead of 8 years. What will be the correct average age (in years)?

(a) 11.25

(b) 11.5

(c) 11.75

(d) 12.25

Q10. 70% of the cost price of a article is equal to the 40% of its selling price. What is the profit or loss percentage?

(a) 63% loss

(b) 70% loss

(c) 75% profit

(d) 80% profit

Q11. Raman spends 80% of his income. If his income is increased by 25% and the expenditure increase by 10%, then what will be the percentage increase in his savings?
(a) 17
(b) 70
(c) 77
(d) 85

Q12. A man makes four trips of equal distances. His speed on first trip was 60 km/hr and in each subsequent trip his speed was half of the previous trip. What is the average speed (in km/hr) of the man in these four trips?
(a) 16
(b) 30
(c) 28.125
(d) 27.5

Q13. Rohan borrowed a certain sum of money at simple interest. Rate of interest was 3% per annum for first 3 years, 4% per annum for next 5 years and 6% per annum for next 7 years. If he paid Rs 2059 as interest, then what is the sum borrowed (in Rs)?
(a) 2400
(b) 2500
(c) 2900
(d) 3100

Q14. The price of motor cycle depreciates every year by 10%. If the value of the motor cycle after 3 years will be Rs 36450, then what is the present value (in Rs) of the motor cycle?
(a) 45000
(b) 50000
(c) 48000
(d) 51000

Q15. Two boat are travelling with speed of 36 km/hr and 54 km/hr respectively towards each other. What is the distance (in metres) between the two boats one second before they collide?
(a) 10
(b) 15
(c) 25
(d) 5

Q16. A car left 3 minutes early than the scheduled time and in order to reach the destination 126 km away in time, it has to slow its speed by 6 km/h from the usual. What is the usual speed (in km/hr) of the car?
(a) 56
(b) 63
(c) 94.5
(d) 126

Q17. If a certain sum becomes 3 times in 6 years at compound interest, then in how many years, it will become 81 times?
(a) 81
(b) 162
(c) 27
(d) 24

Q18. What is the simple interest on Rs 5400 in 5 years at the rate of 12% per annum?
(a) 2700
(b) 2950
(c) 3120
(d) 3240

Q19. A trader allowed a discount of 15% on a trolley bag having list price of Rs 1360 and earns a profit of 15.6%. What is the cost price (in Rs) of the trolleybag?
(a) 1000
(b) 1005
(c) 1050
(d) 1156

Q20. Price of a diamond is directly proportional to square of its weight. A man broke the diamond accidently in three pieces in the ratio of 3 : 5 : 7 and thus loses Rs 42600. What was the original price (in Rs) of the diamond?
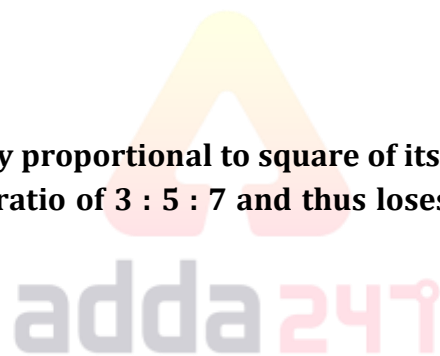(a) 11786
(b) 60000
(c) 67500
(d) 75000

Q21. The average weight of 100 students is 32 kg. The average weight of first 49 students is 30 kg and of last 50 students is 34 kg. What is the weight (in kg) of the 50th student?
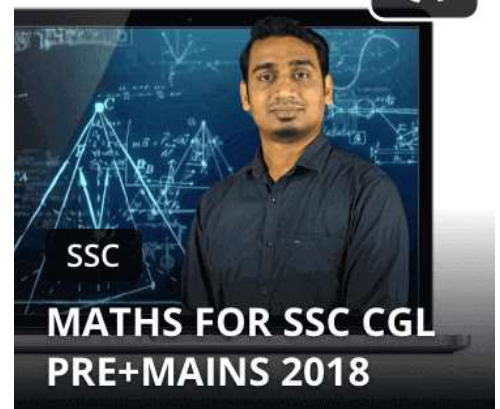(a) 25
(b) 30
(c) 32
(d) 33

Q22. By selling 90 pens for Rs 80 a man loses 20%. What should be the selling price (in Rs) of 90 pens for 20% profit?
(a) 90
(b) 100
(c) 110
(d) 120

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Q23. Out of the following, which is the best discount for a customer?

I. 50% + 50% off

II. 60% + 40% off

III. 70% + 30% off

IV. Buy 1 get 4

(a) Only I and IV

(b) Only II

(c) Only I, II and III

(d) Only III

Q24. If $\frac{a}{2} = \frac{b}{3} = \frac{c}{4}$, then what is the value of $\frac{a+b+c}{b}$?

(a) 3

(b) 2

(c) 4/3

(d) 7/3

Q25. In a mixture, milk and water are in ratio of 2: 3. Some milk is added to the mixture because of which ratio of milk and water becomes 2 : 1. How much milk was added as a percentage of initial mixture?

(a) 75

(b) 60

(c) 80

(d) 50

Q26. The average of marks obtained by A and B is 15 less than that of average marks obtained by B and C. If the marks obtained by C is 65, what is the marks obtained by A?

(a) 35

(b) 50

(c) 65

(d) 80

Q27. What is the average of squares of first 10 natural numbers?

(a) 55.5

(b) 45.6

(c) 38.5

(d) 40.5

Q28. Cost price and selling price of an article are in ratio 13 : 9. If the loss incurred on article is Rs 320, what is the sum (in Rs) of cost and selling prices?

(a) 1480

(b) 1620

(c) 1500

(d) 1760

Q29. By selling 64 apples for Rs 60 a person gains 25%. In order to have 40% loss, how many apples shall he sell for Rs 36?
(a) 80
(b) 70
(c) 60
(d) 50

Q30. A mixture contains 18% copper by weight. How much mixture (in kg) is required to obtain 81 kg of copper?
(a) 350
(b) 300
(c) 450
(d) 250

Q31. What will be the net discount percentage of three successive discounts of 20%, 10% and 30%?
(a) 45.2
(b) 49.6
(c) 54.6
(d) 50.4

Q32. Three bottles of equal capacity have mixture of milk and water in ratio 5 : 7, 7 : 9 and 2 : 1 respectively. These three bottles are emptied into a large bottle. What is the percentage of milk in the new mixture?
(a) 49.6
(b) 52.3
(c) 51.2
(d) 50.7

Q33. Seven friends spent Rs 14 each on a project and the eighth friend spent Rs 21 more than the average expenditure of all eight of them. What is the amount of total money (in Rs) spent by them?
(a) 133
(b) 136
(c) 141
(d) 155

Q34. A person sold his pen for Rs 24 and his profit percentage was numerically equal to the cost price. What was the cost price (in Rs) of the pen?
(a) 12
(b) 14
(c) 16
(d) 20

Q35. A, B and C are three students. A got 36% less marks than B and 16% more marks than C. If B got 145 marks, then what are the marks got by C?
(a) 120
(b) 110
(c) 80
(d) 75

Q36. After repairing a scooter runs at a speed of 54 km/h and before repairing it runs at speed of 48 km/h. It covers a certain distance in 6 hours after repairing. How much time will it take to cover the same distance before repairing?
(a) 6 hours 15 minutes
(b) 6 hours 45 minutes
(c) 7 hours
(d) 7 hours 30 minutes

Q37. If a certain sum of money become thrice of itself in 5 years 4 months at simple interest, then what will be the yearly rate of interest (in %)?
(a) 18.75
(b) 27.5
(c) 37.5
(d) 42.25

Q38. If the cost price of 48 articles is equal to the selling price of 32 articles, then what is the profit percentage?
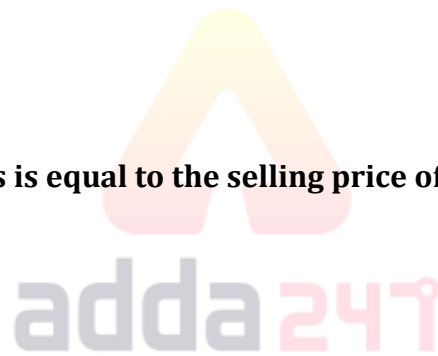(a) 20
(b) 25
(c) 50
(d) 75

Q39. After deducting 12% from a certain sum and then deducting 25% from the remainder, 2508 is left, then what is the initial sum?
(a) 3500
(b) 3450
(c) 3970
(d) 3800

Q40. Two trains are moving in the opposite direction at speed of 30 km/hr and 45 km/hr respectively, whose lengths are 450 m and 550m respectively. What is the time taken (in seconds) by slower train to cross the faster train?
(a) 48
(b) 54
(c) 62
(d) 72

Q41. A person lent certain sum of money at 10% per annum simple interest. In 20 years the interest amounted to Rs 500 more than the sum lent. What was the sum lent (in Rs)?
(a) 200
(b) 500
(c) 1000
(d) 250

Q42. The 4th and 7th term of an arithmetic progression are 11 and -4 respectively. What is the 15th term?
(a) –49
(b) –44
(c) –39
(d) –34

Q43. What is the reflection of the point (5 , –1) in the line y = 2?
(a) (5, –5)
(b) (–5, –5)
(c) (5, 5)
(d) (–5, 5)

Q44. In what ratio is the segment joining points (2, 3) and (–2, 1) divided by the Y-axis?
(a) 1 : 2
(b) 1 : 1
(c) 3 : 1
(d) 2 : 3

Q45. What is the slope of the line 2x - 5y = 12?
(a) 2/5
(b) 5/2
(c) –2/5
(d) –5/2

Q46. The 3rd and 9th term of an arithmetic progression are -8 and 10 respectively. What is the 16th term?
(a) 34
(b) 28
(c) 25
(d) 31

Q47. What is the reflection of the point (1, 2) in the line y = 3?
(a) (1, -4)
(b) (1, 4)
(c) (-1, -4)
(d) (-1, 4)

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Q48. Point A (2, 1) divides segment BC in the ratio 2:3. Co-ordinates of B are (1, -3) and C are (4, y). What is the value of y?

(a) 8

(b) -7

(c) -8

(d) 7

Q49. At what point does the line 2x + 5y = -6 cuts the X-axis?

(a) (3, 0)

(b) (0, 3)

(c) (-3, 0) (c) (0, -3)

Q50. To travel 432 km, an Express train takes 1 hour more than Duronto. If however, the speed of the Express train is increased by 50%, it takes 2 hours less than Duronto. What is the speed (in km/hr) of Duronto train?

(a) 60

(b) 54

(c) 48

(d) 72