



SSC Arithmetic Questions English PDF

SSC Arithmetic Questions (English)

1. A and B invested their money in a business in the ratio of 9 : 5. If 10% of the total profit goes for charity and A's share is Rs 29,840, what is the total profit (in Rs, to the nearest integer)?

- A. Rs 55,715
- B. Rs 51,575
- C. Rs 51,745
- D. Rs 57,545

Ans. B

2. Two trains are moving in the opposite direction at the speed of 48 km/hr and 60 km/hr respectively. The time taken by the slower train to cross a man sitting in the faster train is 12 seconds. What is the length of the slower train?

- A. 180 metres
- B. 720 metres
- C. 360 metres
- D. 480 metres

Ans. C

3. A person having bought goods for Rs.400 sells half of it at a gain of 5%. At what gain percentage must he sell the remainder, so as to gain 25% on the whole?

- A. 25%
- B. 30%
- C. 20%
- D. 45%

Ans. D

4. John drives 250 km at 50 km/h and then he drives 350 km at 70 km/h. Find his average speed for the whole journey in km/h.

- A. 58 km/h
- B. 60 km/h
- C. 55 km/h
- D. 65 km/h

Ans. B

5. The fourth proportional to 16 and 26 and 32 is:

- A. 54
- B. 16
- C. 52
- D. 24

Ans. C

6. A watch is sold at a profit of 25%. Had it been sold for Rs.120 less then, there would have been a less then of 15%. What is the cost price in rupees?

- A. Rs.300
- B. Rs.400
- C. Rs.350
- D. Rs.200

Ans. A

7. Some students went on a field trip. At a speed of 6 km/h, they travelled by bikes for 2 hours; then at a speed of 2 km/h, they walked for another hour; then they took rest for an hour and had lunch for half an hour; then at a speed of 1 m/s, they walked for an hour to visit a garden; and finally at a speed 4 km/h, they returned home in 3 hours. Their average speed, in km/h, (rounded off to two places of decimal) is:

- A. 251.62
- B. 0.28
- C. 3.48
- D. 129.23

Ans. C



8. In a proportion, the 1st, 2nd and 4th terms are 51, 68 and 108, respectively. What is the 3rd term?

- A. 83
- B. 84
- C. 81
- D. 82

Ans. C

9. Raghav purchased a shirt at Rs. 1,500 and marked up the price of the shirt by 40%. What is the discount percentage he has to offer in order to get a profit of Rs. 75?

- A. 50%
- B. 75%
- C. 15%
- D. 25%

Ans. D

10. Ram starts from point A at 8 a.m. and reaches point B at 2 p.m. on the same day. On the same day, Raju starts from point B at 8 a.m. and reaches point A at 6 p.m. on the same day. Both points A and B are separated by only a straight line track. At what time they both meet?

- A. 11:45 a.m.
- B. 9:42 a.m.
- C. 10:42 a.m.
- D. 12:42 p.m.

Ans. A

11. The HCF of three numbers 98, 175 and 210 will be:

- A. 6
- B. 7
- C. 5
- D. 3

Ans. B

12. A is 40% more efficient than B. How much time will both, working together, take to finish the work, which B alone can finish in 36 days?

- A. $11\frac{2}{3}$ days
- B. $9\frac{1}{3}$ days
- C. 18 days
- D. 15 days

Ans. D

13. Out of an earning of Rs. 720, Pankaj spends 65%. How much does he save?

- A. Rs. 250
- B. Rs. 253
- C. Rs. 251
- D. Rs. 252

Ans. D

14. If the seven-digit number 52A6B7C is divisible by 33, and A, B, C are primes, then the maximum value of $2A+3B+C$ is:

- A. 32
- B. 27
- C. 23
- D. 34

Ans. C

15. A person deposited ₹15,600 in a fixed deposit at 10% per annum simple interest. After every second year he adds his interest earned to the principal. The interest at the end of 4 years is:

- A. ₹3,975
- B. ₹3,744
- C. ₹6,864
- D. ₹6,655

Ans. C



16.If Anju is 30% more efficient than Bitt, then how much time will they take, working together, to complete a job which Anju alone could have done in 23 days?

- A. 11 days
- B. 15 days
- C. $20\frac{3}{17}$ days
- D. 13 days

Ans. D

17.The HCF of two numbers is 21 and their LCM is 840. If one of the numbers is 49, then the other number is:

- A. 540
- B. 650
- C. 360
- D. 810

Ans. C

18.The average of six numbers is 3.52. The average of two of them is 3.7, while the average of other two is 2.5 . What is the average of the remaining two?

- A. 2.5
- B. 3.52
- C. 4.36
- D. 3.7

Ans. C

19.A Microwave oven is sold in Hyderabad for Rs.M. A retailer, Elahi from Hyderabad went to Madras and bought it for 25% less (when compared to the price in Hyderabad). He spends Rs.1,000 on transport to bring it from Madras to Hyderabad. He sold it in Hyderabad for Rs.M making a profit of 10%. Find the value of M (in Rs.).

- A. 6,258.8
- B. 6,285.7
- C. 6,305.8
- D. 6,527.9

Ans. B

20.The least number that should be added to 35460 so that the sum is exactly divisible by 3, 4, 5 and 7 is:

- A. 180
- B. 84
- C. 420
- D. 240

Ans. D

21.A shopkeeper offers the following three schemes.

Scheme-I: Two successive discounts of 15% and 25%

Scheme-II: Buy 5, get 3 free

Scheme-III: Buy 4, get 6

Which scheme is the best for customers?

- A. Scheme-I
- B. Any one- All are equal
- C. Scheme-III
- D. Scheme-II

Ans. D

22.A boat moves 25km upstream and 39km downstream in 8 hours. It travels 35km upstream and 52km downstream in 11 hours. What is the speed of the stream if it travels at a uniform speed?

- A. 4 km/h
- B. 6 km/h
- C. 3 km/h
- D. 5 km/h

Ans. A



23. The ratio of the cost price and selling price of an article is 10 : 11. The gain per cent is:

- A. 10%
- B. 15%
- C. 5%
- D. 8%

Ans. A

24. A person borrows Rs.1,00,000 from a bank at 10% per annum simple interest and clears the debt in five years. If the instalment paid at the end of the first, second, third and fourth years to clear the debt are Rs.10,000, Rs.20,000, Rs.30,000 and Rs.40,000, respectively, what amount should be paid at the end of the fifth year to clear the debt?

- A. Rs.40,450
- B. Rs.36,450
- C. Rs.30,000
- D. Rs.38,250

Ans. C

25. Train A running at 81 km/h takes 72 sec to overtake train B, when both the trains are running in the same direction, but it takes 36 sec to cross each other if the trains are running in the opposite direction. If the length of train B is 600 meters, then find the length of train A. (in meters)

- A. 600
- B. 480
- C. 900
- D. 590

Ans. B

26. The cost price of an article is ₹800. After allowing a discount of 10%, a gain of 12.5% was made. The marked price of the article is:

- A. ₹1,100
- B. ₹1,000
- C. ₹1,300
- D. ₹1,200

Ans. B

27. Two persons A and B working separately can sanitize a building in 6 and 10 hours, respectively. They work in stretches of one hour alternately. If A begins at 8 a.m., then when will the work be finished?

- A. $7\frac{1}{3}$ h
- B. $6\frac{1}{3}$ h
- C. $9\frac{1}{3}$ h
- D. $8\frac{1}{3}$ h

Ans. A

28. If the number 6788934a4 is divisible by 11, then find the smallest whole number in the place of a.

- A. 5
- B. 4
- C. 3
- D. 2

Ans. D

29. A train travels at a speed of 18 m/s in the first 5 minutes, covers 7.5 km in the next 10 minutes and covers 12 km in another 10 minutes. What is its average speed (in km/h, rounded off to 1 decimal place) for the entire journey?

- A. 71.2
- B. 59.8
- C. 64.6
- D. 45.7

Ans. B



30. The HCF of three numbers 72, 108 and 2010 is:

- A. 12
- B. 5
- C. 18
- D. 6

Ans. D

31. A shopkeeper offers a cash discount of ₹ 85 first and then two successive discounts of 10% and 2% on the marked price of a fan. If the marked price of the fan is ₹ 1,285, what is its selling price (in ₹)?

- A. 958.4
- B. 1000.4
- C. 1058.4
- D. 1100

Ans. C

32. Find the average of the following sets of numbers.

693, 456, 876, 532, 934, 691, 596, 398, 682

- A. 550.50
- B. 750.80
- C. 650.89
- D. 725.90

Ans. C

33. The largest three-digit number that gives the same remainder 2 when divided by 3, 5 and 9 is _____.

- A. 999
- B. 984
- C. 998
- D. 992

Ans. D

34. If two LED TVs and one mobile phone cost ₹31,000, while two mobile phones and one LED TV cost ₹35,000, then the value of one mobile phone is:

- A. ₹13,500
- B. ₹12,500
- C. ₹13,000
- D. ₹12,000

Ans. C

35. P, Q and R can finish a work in 5 days, 10 days, and 15 days, respectively, working alone. P and Q work on first day, P and R work on second day and P and Q work on third day and so on till the work is completed. In how many days the work will be completed?

- A. $13/2$
- B. $9/2$
- C. $7/2$
- D. $5/2$

Ans. C

36. A goods train 350 m long passes through a tunnel of length 1250 m in 80 seconds. What is the speed of the train?

- A. 64 km/h
- B. 56 km/h
- C. 78 km/h
- D. 72 km/h

Ans. D

37. If the four-digit number 463y is divisible by 7, then what is the value of y?

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

Ans. A



38. Working for 10 hours per day, 6 men can build a wall in a certain number of days. By working for how many hours/minutes per day can 12 men build the wall in the same days?

- A. 7 hours 30 minutes
- B. 5 hours
- C. 20 hours
- D. 10 hours

Ans. B

39. How many kilogram of rice costing Rs 60 per kg must be mixed with 24 kg of rice costing Rs 42 per kg so that there may be a gain of 12% by selling the mixture at Rs 56 per kg?

- A. 22 kg
- B. 20 kg
- C. 19.2 kg
- D. 21.2 kg

Ans. C

40. At a clearance sale, a shopkeeper gives 45% discount. If a customer paid ₹ 330 during the sale, then what is the marked price of that shirt?

- A. ₹550
- B. ₹600
- C. ₹500
- D. ₹650

Ans. B

41. If 20% of $(A + B) = 30\%$ of $(A - B)$, then what percentage of B is equal to A?

- A. 400%
- B. 300%
- C. 500%
- D. 100%

Ans. C

42. Rajnish borrowed ₹1,500 from a bank and repaid the entire amount with interest in two equal annual instalments, the first instalment being paid a year after Rajnish borrowed from the bank. If the rate of interest was 40% per annum, compounded annually, then what was the value (in ₹) of each instalment paid by Rajnish?

- A. 1125
- B. 1470
- C. 1225
- D. 1350

Ans. C

43. A sum triple itself in 9 years at simple interest. Find the rate of interest per annum is.

- A. $38\frac{2}{9}\%$
- B. $33\frac{1}{3}\%$
- C. $27\frac{1}{9}\%$
- D. $22\frac{2}{9}\%$

Ans. D

44. A starts a business with ₹75,000 and B joins the business 5 months later with an investment of ₹80,000. After 1 year, they earn a profit of ₹4,08,800. Find the share of A and B (in ₹).

- A. 2,52,000 and 1,56,800
- B. 2,50,000 and 1,58,800
- C. 2,48,000 and 1,60,800
- D. 2,49,500 and 1,59,300

Ans. A



45. If 80 litres of milk solution has 60% milk in it, then how much milk should be added to make milk 80% in the solution?

- A. 70 litres
- B. 50 litres
- C. 60 litres
- D. 80 litres

Ans. D

46. If the highest common factor (HCF) of x and y is 15, then the HCF of $36x^2 - 81y^2$ and $81x^2 - 9y^2$ is divisible by _____.

- A. 135
- B. 120
- C. 180
- D. 90

Ans. A

47. A, B and C invested capital in the ratio of 3 : 4 : 8. At the end of the business term, they received the profit in the ratio of 2 : 3 : 5. What is the ratio of their invested time?

- A. 15 : 16 : 13
- B. 13 : 18 : 15
- C. 16 : 18 : 15
- D. 16 : 21 : 18

Ans. C

48. Reshma covers 45 km at a speed of 15 km/h by bicycle, 80 km at a speed of 40 km/h by car, and another 6 km at a speed of 2 km/h on foot. Find her average speed for the whole journey (correct to 2 decimal places).

- A. 16.38 km/h
- B. 43.50 km/h
- C. 18.36 km/h
- D. 15.25 km/h

Ans. A

49. A dishonest dealer marks up his goods by 50% and then gives a discount of 20% on the marked price. Apart from this, he uses a faulty balance which reads 1 kg for 900 gm. What is his net profit percentage (rounded off to the nearest integer)?

- A. 24
- B. 27
- C. 36
- D. 33

Ans. D

50. The ratio of the number of coins of 25 paise, 50 paise, Rs. 2 and Rs. 5 is 5 : 4 : 3 : 1, respectively. If the total amount of the coins is Rs. 285, then the difference between the number of 25 paise and Rs. 5 coins is:

- A. 80
- B. 30
- C. 40
- D. 60

Ans. A

51. The average marks obtained by Saloni in four papers is 51, and in the fifth paper she gets 56 marks. Find her new average in all five papers.

- A. 51
- B. 52
- C. 49
- D. 50

Ans. B



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