Quant Beginner Level for SSC CGL 24th November (Questions)

Q1. A and B have some guavas divided among themselves. A says to B "If I give you 25% of the guavas I have, I will still have 2 more guavas than you have." To this, B says "If you give me guavas equal to 70% of what I have now, I will have 4 more guavas than you have." What is the total number of guavas that they have?
(a) 80
(b) 64
(c) 36
(d) 88

Q2. The annual earning of Mr. Sikkawala is Rs. 4 lakhs per annum for the first year of his job and his expenditure was 50%. Later on for the next 3 years his average income increases by Rs. 40,000 per annum and the saving was 40%, 30% and 20% of the income. What is the percentage of his total savings over the total expenditure if there is no any interest is applied on the savings for these four years:
(a) $49\frac{37}{87}\%$
(b) $41\frac{73}{83}\%$
(c) 53%
(d) None of these

Q3. A, B, C and D purchased a cine-multiplex for Rs. 56 lakhs. The contribution of B, C and D together is 460% that of A, alone. The contribution of A, C and D together is 366.66% that of B's contribution and the contribution of C is 40% that of A, B and D together. The amount contributed by D is:
(a) 10 lakh
(b) 12 lakh
(c) 16 lakh
(d) 18 lakh

Q4. Ram prepares solutions of alcohol in water according to customers' needs. This morning Ram has prepared 27 litres of a 12% alcohol solution and kept it ready in a 27 litre delivery container to be shipped to the customer. Just before delivery, he finds out that the customer had asked for 27 litres of 21% alcohol solution. To prepare what the customer wants. Ram replaces a portion of 12% solution by 39% solution. How many litres of 12% solution are replaced?
(a) 5
(b) 9
(c) 10
(d) 12

Q5. My friend Siddhartha Ghosh is working in the Life Insurance Corporation of India (LIC). He was hired on the basis of commission and he got the bonus only on the first years commission. He got the policies of Rs. 2 lakh having maturity period of 10 year. His commission in the first, second, third, fourth and for the rest of the years is 20%, 16%, 12%, 10% and 4% respectively. The bonus is 25% of the commission. If the annual premium is Rs. 20,000 then what is his total commission if the completion of the maturity of all the policies is mandatory:
(a) Rs. 174,00
(b) Rs. 23,600
(c) Rs. 15,000
(d) Rs. 15,500

Q6. Mr. Amar spends 50% of his monthly income on household items and out of the remaining he spends 25% on travelling, 30% on entertainment, 15% on shopping and remaining amount of Rs. 900 is saved. What is Mr. Amar's monthly income?
(a) Rs. 6,000
(b) Rs. 12,000
(c) Rs. 9,000
(d) Cannot be determined

Q7. In a test consisting of 80 questions carrying one mark each, Ankita answers 65% of the first 40 questions correctly. What percent of the other 40 questions does she need to answer correctly to score 80% on the entire test?
(a) 60
(b) 80
(c) 95
(d) 40

Q8. In a class of 60 students and 5 teachers, each student got sweets that are 20% of the total number of students and each teacher got sweets that are 30% of the total number of students. How many sweets were there?
(a) 845
(b) 897
(c) 810
(d) 104

Q9. In a college election fought between two candidates, one candidate got 55% of the total valid votes. 15% of the votes were invalid. If the total votes were 15,200, what is the number of valid votes the other candidate got?
(a) 7106
(b) 6840
(c) 8360
(d) 5814

Q10. On a test consisting of 250 questions, John answered 40% of the first 125 questions correctly. What percent of the other 125 questions does she need to answer correctly for her grade on the entire exam to be 60%?
(a) 75
(b) 80
(c) 60
(d) Cannot be determined

Q11. The ratio of investment by A & B in a business is 14 : 15 and the ratio of profit is 2 : 5. If A invested money for 3 months, then for how much time B invested his money?

(a) 6

(b) 7

(c) 8

(d) 9

Q12. The ratio of zinc & copper in Alloys A & B are 3 : 4 & 5 : 9 respectively. If mixture of A & B is taken in the ratio 2 : 3. Then find the ratio of zinc & copper in the new alloy?

(a) 27 : 43

(b) 7 : 3

(c) 2 : 5

(d) 23 : 47

Q13. One year ago, the ages of A & B are in the ratio of 4 : 3. The ratio 3 years hence is 6 : 5. What is the ratio of their ages 11 years from now?
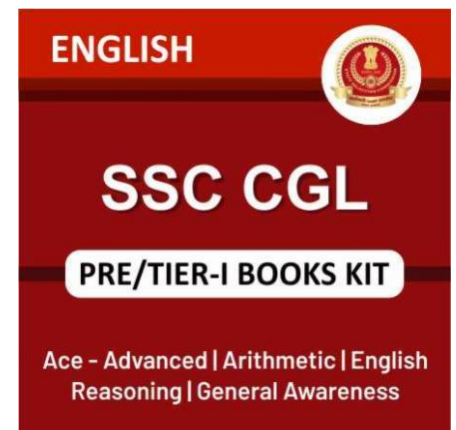
(a) 10 : 9

(b) 11 : 9

(c) 13 : 9

(d) 16 : 9

Q14. A sum of Rs. 5000 is divided into two parts such that the simple interest on the first part for $4\frac{1}{5}$ years at $6\frac{2}{3}\%$ p.a is double the simple interest on the second part for $2\frac{3}{4}$ years at 4% p.a. What is the ratio of the money invested in the two schemes?

(a) 31 : 41

(b) 33 : 47

(c) 33 : 42

(d) 33 : 41

Q15. Two third of the number of employees are males and rest are females. If 3/8 of the male employees are temporary and 2/5 of the females are permanent. Then find the ratio of 3/7 of the number permanent male employees to 2/5 of the number of temporary female employees.

(a) 125 : 56

(b) 121 : 17

(c) 12 : 5

(d) 125 : 51

Q16. What is the ratio of fourth proportion of numbers 6, 18, 12 and the mean proportion of numbers 3 & 27?

(a) 4 : 1

(b) 5 : 1

(c) 5 : 2

(d) 7 : 3

Q17. One-fourth of sixty percent of a number is equal to two-fifths of twenty percent of another number. What is the respective ratio of the first number to the second number?

(a) 4 : 7

(b) 5 : 9

(c) 8 : 15

(d) Cannot be determined

Q18. The total number of boys in a school is 16% more than the total number of girls in the school. What is the respective ratio of the total number of boys to the total number of girls in the school?

(a) 25 : 21

(b) 29 : 25

(c) 25 : 29

(d) Cannot be determined

Q19. In a class the number of girls is 20% more than that of the boys. The strength of the class is 66. If 4 more girls are admitted to the class, the ratio of the number of boys to that of the girls is

(a) 1 : 2

(b) 1 : 4

(c) 3 : 4

(d) 3 : 5

Q20. If the income of A is 10% more than that of B and the income of B is 20% less than that of C, then the incomes of A, B and C respectively are in the ratio

(a) 11 : 10 : 8

(b) 22 : 20 : 25

(c) 10 : 9 : 7

(d) 22 : 18 : 25

Q21. If B is $63\frac{7}{11}\%$ more than that of A and C is $93\frac{3}{29}\%$ more than the sum of A & B . Then C is how much percent more than that of A?

(a) 309.9%

(b) 409.9%

(c) 209.9%

(d) None of these

Q22. If 70% of a number is 288 more than 30% of the same number. Then 38% of the number is less than $66\frac{2}{3}\%$ of the number by?

(a) 206.4

(b) 306.4

(c) 106.4

(d) None of these

Q23. A boy found the answer for the question "subtract the sum of $18\frac{2}{3}\%$ and 25% of a number from the number and find the resultant number is how much percent less than the original number" as 30. The percentage of error in his answer?
(a) 39%
(b) 28%
(c) 37%
(d) 22%

Q24. A businessman imported computers worth Rs.36000, mobile phones worth Rs.28000 and television sets worth Rs.33000. He has to pay $18\frac{2}{3}\%$ duty on computer, $28\frac{4}{7}\%$ duty on television and $36\frac{4}{11}\%$ duty on mobile phones. How much duty he had to pay on all the items above?
(a) Rs.44000
(b) Rs.26000
(c) Rs.22000
(d) Rs.11000

Q25. If decreasing 120 by x % gives the same result as increasing 40 by x%, then x% of 210 is what percent less than (x+20)% of 180?

(a) $16\frac{2}{3}\%$

(b) $28\frac{4}{7}\%$

(c) $33\frac{1}{3}\%$

(d) None of these