



50+ Percentage Questions for SSC Exams (PDF)

Percentage Questions for SSC Exams

1. The cost of apples is increased by 20% and then decreased by 20%. What is the net percentage decrease?

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

Ans. B

2. Shiva's monthly salary is Rs.75,000. He spends Rs.12,000 on household items, Rs.14,000 on LIC and mutual funds, Rs.15,000 on his children's education, and keeps Rs.10,000 for miscellaneous expenses. His savings are Rs.21,000 per month and he donates the rest of the amount to an orphanage. The percentage of his income that he donates is:

- A. 3%
- B. 4%
- C. 6%
- D. 8%

Ans. B

3. An IT company decided to take a recruitment drive for the post of network analyst in IIT Delhi. Some students took part in examination but 9% of the students could not fulfill the eligibility criteria for that particular opening. After the written examination 80% of the students cleared the cutoff for the interview, out of these students 70% students were selected and 153 students were in waiting list. Find the no. of students who took part in examination (including those who could not fulfill the eligibility criteria).

- A. 678
- B. 400
- C. 700
- D. 560

Ans. C

4. Two jars contain equal quantities of 40% alcohol. Surbhi changed the concentration of the first jar to 50% by adding the extra quantity of pure alcohol. Sonali changed the concentration of the second jar to 50% by replacing a certain quantity of the solution with pure alcohol. By what percentage is the quantity of alcohol added by Surbhi more than replaced by Sonali?

- A. 10
- B. 20
- C. 30
- D. 50

Ans. B



5. The marked price of an article is 2500. If the shopkeeper offers two successive discounts, each of $x\%$ on the MP is equal to a single discount of ₹1056. If he offers only one discount of $x\%$ on MP, what will be the new SP of the article?

- A. 1800
- B. 1750
- C. 1900
- D. 2150

Ans. C

6. Mr Mehta has a salary of 16,200 per month. In the first month of the year, he spends 50% of his income on food, 40% on clothing and saves 11.11% of what he has spent. In the next two months, he saves 9.09% of what he has spent (spending 57.33% of his income on food). In the fourth month, he gets an increment of 11.11% on his salary and spends every single penny on celebrating this occasion. But from fifth month onwards good sense prevails on him and he saves 12.5%, 10%, 20%, 15%, 15%, 8.33%, 20% and 12.5% on his new income per month. The ratio between the average of the savings for the two months having the highest savings to the average of the savings for the two months having the lowest savings is:

- A. 2.67
- B. 5.33
- C. 3.33
- D. None of these

Ans. B

7. Given that $M = \frac{(a^2 - b)}{c}$. If a , b and c all are increased by 10% then what will be the percentage change in M ?

- A. 15%
- B. 20%
- C. 10%
- D. 25%

Ans. C

8. The salary of Shyam is Rs. 30,360 per month. The salary of his sister is 10% more than that of his. Salary of his only brother is 9.09% more than that of his only sister.

Salary of his wife is $52\frac{4}{23}\%$ is less than the total salary of his sister and brother together. What is the salary of his wife?

- A. 30,360
- B. 36,432
- C. 33,396
- D. None of these

Ans. C



9. A company has 120 machines of equal efficiency in its production hub. The annual manufacturing expenses are Rs. 4,80,000 and the establishment charges are Rs. 1,50,000. The annual output of the company is Rs. 9,60,000. The annual output and manufacturing expenses are directly proportional to the number of machines that are operational. The shareholders get the 20% of profit. Owing to lockdown due to Corona virus, this year, only 91.67% machines were operational. Then the percentage decrease in the amount to shareholders is:

- A. 8.33%
- B. 10%
- C. 12.12%
- D. 13.33%

Ans. C

10. A big cube is formed by rearranging 275 coloured and 68 non-coloured similar smaller cubes in such a way that the exposure of the coloured cubes to the outside is minimum. The percentage of the exposed cubes that are coloured on the surface is:

- A. 93.54%
- B. 51.02%
- C. 43.73%
- D. 52.43%

Ans. B

11. In a company office, there are 40% female employees and 35% of them get a salary of more than equal to Rs. 11,000 per month and 70% of the male employees get a salary of less than Rs. 11,000 per month. What is the percentage of employees, who get a salary of more than equal to Rs. 11,000 per month?

- A. 40%
- B. 35%
- C. 32%
- D. Can't be determined

Ans. C

12. The number of voters not casting their vote for party A increased by 20% in this election over those who didn't cast for it in the previous assembly polls and party A lost by majority six times as large as that by which it had won the assembly polls previous year. If a total of 2,10,000 people voted each time, how many voters voted against the party in the assembly poll the previous year.

- A. 2,50,000
- B. 1,75,000
- C. 1,20,000
- D. 90,000

Ans. B



13. In normal days, ticket of Jhalana Safari is sold at 15% discount and they earn a profit of 53%. However, in these conditions, to attract travellers, they are providing a discount of 22% instead of 15%. How much profit they are earning now?

- A. 46%
- B. 42.60%
- C. 40.40%
- D. 42%

Ans. C

14. Income of Ramesh in 2010 was such that he earned a profit of 20% on his investment in the business. Next year in 2011, his investment was less by ₹10000, but still managed the same income as that of 2010. Thus, percentage profit earned increased to 26%. What was his income in 2010? [Income = Investment + Profit]

- A. Rs. 225000
- B. Rs. 302500
- C. Rs. 252000
- D. Rs. 365200

Ans. C

15. If 1 micron = 10,000 Angstroms, then 100 Angstroms is what per cent of 100 Microns?

- A. 0.0001%
- B. 0.001%
- C. 0.01%
- D. 0.1%
- E. None of the above/More than one of the above

Ans. C

16. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?

- A. 57%
- B. 60%
- C. 65%
- D. 90%

Ans. A

17. In an examination, in which the full marks were 600, A scored 20% more marks than B; B scored 50% more marks than C and D scored 25% more marks than C. If A scored 90% marks, then the marks scored by D is:

- A. 375 marks
- B. 240 marks
- C. 360 marks
- D. 225 marks

Ans. A



18. Two jars contain equal quantities of 40 % alcohol. Surbhi changed the concentration of the first jar to 50 % by adding the extra quantity of pure alcohol. Sonali changed the concentration of the second jar to 50 % by replacing a certain quantity of the solution with pure alcohol. By what percentage is the quantity of alcohol added by Surbhi more than replaced by Sonali?

Ans. *

19. A person gets ₹27 more by selling an article at a profit of 6.5% than selling it at a loss of 7%. The cost price of the article is

- A. ₹200
- B. ₹300
- C. ₹150
- D. ₹250
- E. None of the above/More than one of the above

Ans. A

20. A person buys some pencils at 5 for a rupee and sells them at 3 for a rupee. His gain percent is.

- A. $33\frac{1}{3}\%$
- B. 40%
- C. 50%
- D. $66\frac{2}{3}\%$

Ans. D

21. If 35% of a number added to 35 gives the result as the number itself. Then the number is.

- A. $\frac{630}{13}$
- B. $\frac{770}{13}$
- C. $\frac{840}{13}$
- D. $\frac{700}{13}$

Ans. D

22. The price of the raw materials has gone up by 20%, the production cost has also increased from 20% of the cost of the raw material to 25% of the cost of the raw material. By how much percentage should there be reduction in the usage of raw materials to keep the cost same?

- A. 15%
- B. 25%
- C. 20%
- D. 17%

Ans. C



23. A factory produces 3 types of clothes in the ratio 6 : 4 : 1. 10% of the produced clothes are defective. 50%, 40% and 30% of the remaining clothes are exported to other countries and the rest is domestic consumption. Find out Domestic consumption is **approximately** what percentage of total production of clothes.

- A. 55%
- B. 63%
- C. 60%
- D. 50%

Ans. D

24. Four buckets are kept on a table in a manner that their capacity keeps on becoming four times when measured from left towards right. 30% of the first bucket, 20% of the second bucket, 35% of the third bucket and 25% of the fourth bucket are empty. If all the four buckets are emptied into the fifth bucket, then the total quantity is what percent of the total capacity of the four buckets?

- A. $73\frac{5}{17}\%$
- B. $74\frac{8}{17}\%$
- C. 73
- D. 75%

Ans. A

25. In an entrance examination at different centres, a total of 20, 35, 50, 55, 65, 75 and 100 students appeared. The pass percentages of the different centres are 25%, 40%, 44%, 60%, 60%, 68% and 79% respectively. The pass percentage of the entrance examination is: (correct to the nearest integer)

- A. 59%
- B. 53%
- C. 63%
- D. 61%

Ans. D

26. Rupa owns $71\frac{3}{7}\%$ of a property. If 35% of the property that she owns is worth ₹369250 then 55% of the value (in ₹) of the property is:

- A. 823150
- B. 832150
- C. 812350
- D. 821350

Ans. C

27. Population of a city is 3150 in last year. If rate of increase in population is same for each year, next year population becomes 12600. What is the present population of city?

- A. 7875
- B. 6300
- C. 8225
- D. 5975

Ans. B



28. On increasing each of the radius of the base and height of a cylinder by 20%, its volume will be increased by

- A. 20%
- B. 40.8%
- C. 60.4%
- D. 72.8%
- E. None of the above/More than one of the above

Ans. D

29. A number X is first increased by 40% and then decreased by 8%. The number so obtained, is now increased by 20%. If the number, has increased by 34100 than original number X, then find $14\frac{3}{8}\%$ of that number X?

- A. 8984.375
- B. 6578.90
- C. 8965.70
- D. 6543.78

Ans. A

30. In an exam A got 83.33% more marks than B, marks of C is 18.08% less than A. If D got total marks equal to average marks of A, B and C, then Find marks of A and C together if sum of marks of A, B, C and D in paper is 520.

- A. 325
- B. 350
- C. 300
- D. 375

Ans. C

31. Chamanlal, Arshad and Jagjit Singh contested an election. All the votes polled were valid. Arshad got 35% of the total votes. For every 35 votes Chamanlal got 14 votes. The winner got 4950 more votes than the person who received the least number of votes. Find the total number of votes polled.

- A. 13378
- B. 38000
- C. 99000
- D. 33000

Ans. D

32. Ranjan spent 10% of his salary on rent. He spent 20% of the remaining part of the salary on transport. After which he spent 40% of the balance of the salary on food. Further, he spent 80% of the balance on various bills. He deposits Rs. 5000 in the bank and kept the remaining Rs. 1480 for his own petty expenditure. Find his monthly salary (in Rs)

- A. 75000
- B. 80000
- C. 64800
- D. 82500

Ans. A



33. A certain number of students from school X appeared in an examination and 20% students failed. From school Y, 130% more students than that from school X, appeared in the same examination. If 90% of the total number of students appeared from both the schools passed, then what is the percentage of students from school Y who failed (correct to one decimal place)?

- A. 6.4%
- B. 10%
- C. 5.7%
- D. 8.3%

Ans. C

34. Alloy A contains metals x and y in the ratio 5:2 and alloy B contains these metals in the ratio 3 : 4. Alloy C is prepared by mixing A and B in the ratio 4:5. The percentage of y in alloy C is:

- A. $55\frac{5}{9}\%$
- B. $66\frac{4}{9}\%$
- C. $33\frac{5}{9}\%$
- D. $44\frac{4}{9}\%$

Ans. D

35. Price of a one-gram gold coin decreased by 10% on its initial price on Monday and increased by 20% on Tuesday and again increased by 8% on Wednesday, and 5% increase on Thursday. If the final price on Thursday is Rs.5511.24, then the initial price (in Rs.) of one gram gold coin on Monday was?

- A. 4000
- B. 4500
- C. 5000
- D. 4250

Ans. B

36. Radha saves x% of her income. If her income increase by 28% and the expenditure increase by 20%, then her savings increase by 40%. What is the value of x?

- A. 35
- B. 50
- C. 25
- D. 40

Ans. D



37. The total number of students in a school is 1400, out of which 35% of the students are girls and the rest are boys. If 80% of the boys and 90% of the girls passed in an annual examination, then the percentage of the students who failed is:

- A. 16.5
- B. 15.8
- C. 17.4
- D. 21.5

Ans. A

38. Lucky spends 85% of her income. If her expenditure increase by $x\%$ saving increase by 60% income increase by 26%, then what is the value of x ?

- A. 26
- B. 30
- C. 20
- D. 34

Ans. C

39. Three persons A, B and C donate 10%, 7%, and 9% respectively of their monthly salaries to a charitable trust. Monthly salaries of A and B are equal and the difference between the donations of A and B is ₹900. If the total donation by A and B is ₹600 more than that of C, then what is the monthly salary (in ₹) of C?

- A. 60000
- B. 45000
- C. 55000
- D. 50000

Ans. D

40. By mistake, the reciprocal of a positive fraction got types in place of itself, and thereby its value got reduced by $\frac{175}{4}\%$. What was the value of the fraction?

- A. $\frac{3}{4}$
- B. $\frac{1}{4}$
- C. $\frac{4}{3}$
- D. $\frac{1}{2}$

Ans. C

41. Avinash has 20% less coins of different countries than Gaurav has. Gaurav has 40% more such coins than Chetan has. By what percent the number of coins which Chetan has is less number of coins which Avinash has? (correct to one decimal place)

- A. 12
- B. 10.5
- C. 10.7
- D. 10.6

Ans. C



42. The monthly expenses of a person are $66\frac{2}{3}\%$ more than her monthly savings. If her monthly income increases by 44% and her monthly expenses increase by 60%, then there is an increase of ₹1,040 in her monthly savings. What is the initial expenditure (in ₹)?

- A. 10,000
- B. 12,000
- C. 13,000
- D. 9,000

Ans. A

43. The income of A is 80% of B's income and the expenditure of A is 60% of B's expenditure. If the income of A is equal to 90% of B's expenditure, then by what percentage are the savings of A more than B's savings?

- A. 125%
- B. 140%
- C. 100%
- D. 150%

Ans. B

44. The monthly salary of a person was Rs. 1,60,000. He used to spend on three heads - Personal and family expenses (P), Taxes (T) and Education loan (E). The rest were his savings. P was 50% of the income. E was 20% of P, and T was 15% of E. When his salary got raised by 30%, he maintained the percentage level of P, but E became 30% of P and T became 20% of E. The sum of the two savings (in Rs.) is:

- A. 2,11,680
- B. 1,28,160
- C. 1,18,620
- D. 1,62,810

Ans. B

45. The price of petrol shot up by 5%. Before the hike, the price was Rs. 82 per litre. A man travels 3045 km every month and his car gives a mileage of 15 km per litre. What is the increase in the monthly expenditure (to the nearest Rs.) on the man's travel due to the hike in the petrol prices?

- A. 832
- B. 859
- C. 758
- D. 944

Ans. A

46. Some students (only boys and girls) from different schools appeared for an Olympiad exam. 20% of the boys and 15% of the girls failed the exam. The number of boys who passed the exam was 70 more than that of the girls who passed the exam. A total of 90 students failed. Find the number of student that appeared for the exam.

- A. 420
- B. 400
- C. 500
- D. 350

Ans. C



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