

MATHS DELHI POLICE

2025-26

Special Edition

**ENGLISH
Medium**

CONSTABLE 2025-26

Chapterwise

FEATURES

- With Letest TCS PYQs
- Detailed Explanation
- Short tricks & Smart Solutions
- Type-Wise & Level-Wise



Aditya Ranjan Sir
(Excise Inspector)

SELECTED हैं SELECTION दिलाएँगे



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CHAPTER WISE DISTRIBUTION OF DELHI POLICE CONSTABLE EXAMS HELD DURING 2014-23 MATHEMATICS

		EXAMINATIONS				
		Delhi Police Constable 14/11/2023 (Shift-01)	Delhi Police Head Constable 28/10/2022 (Shift-01)	Delhi Police Constable 16/12/2020	Delhi Police Constable 05/12/2017	Delhi Police Constable 08/03/2014
S.N.	Chapter					
1.	Percentage	2 - 3	1	1	1	2
2.	Profit & Loss	0 - 1	1	1	1	1
3.	Discount	0 - 1	1	1	1	-
4.	Simple Interest	1	1	1	1	-
5.	Compound Interest	1	1	1	1	1
6.	Ratio & Proportion	1	1	1	2	2
7.	Age & Partnership	0 - 1	-	-	-	-
8.	Mixture & Alligation	0 - 1	-	-	1	1
9.	Average	1	1	2	1	2
10.	Time & Work	1	2	2	1	1
11.	Time & Distance	1	1	1	1	2
12.	Number System	2 - 3	1	-	2	-
13.	LCM & HCF	0 - 1	-	1	-	-
14.	Simplification	0 - 1	2	2	1	-
15.	Mensuration	2 - 3	2	1	1	3
16.	Algebra	-	4	-	-	-
17.	Trigonometry	-	1	-	-	-
18.	Geometry	-	4	-	-	-
19.	Permutation & Combination	-	-	-	-	-
20.	Data Interpretation	-	1	-	-	-
Total Number of Questions		15	25	15	15	15

TYPE - I

1. There are 160 students in a class. Out of them, 70 are girls. Find the percentage of girls in the class?

DP Head Constable 13/10/2022 (Shift-02)

- (a) 44.75% (b) 43.75%
(c) 42.75% (d) 45.75%

2. What is 20% of 45% of 800 grams?

DPHC AWO/TPO 28/10/2022 (Shift-02)

- (a) 72 gram (b) 62 gram
(c) 82 gram (d) 92 gram

3. If 60% of $X = 40\%$ of Y , then $X : Y = ?$

DP CONSTABLE 21/11/2023 (Shift-01)

- (a) 3 : 2 (b) 3 : 5
(c) 2 : 3 (d) 2 : 5

4. If 70% of $(x - y) = 30\%$ of $(x + y)$, then what percent of x is y ?

- (a) 20% (b) 50%
(c) 40% (d) 30%

5. The ratio of the ages between A and B is 2 : 3, respectively. B's age is how much percentage of A's age?

DP Head Constable 12/10/2022 (Shift-03)

- (a) 66.67% (b) 150%
(c) 120% (d) 75%

6. Meena has ₹20,000 in her savings account. If she spends ₹6,000, what is the decrease in saving as a percentage?

DP CONSTABLE 30/11/2023 (Shift-02)

- (a) 22% (b) 12%
(c) 20% (d) 30%

7. A number y , when reduced by 25%, becomes 120% of a second number z . What percentage of z is y ?

DP CONSTABLE 16/11/2023 (Shift-02)

- (a) 160% (b) 150%
(c) 175% (d) 145%

8. If 35% of 60% of A is equal to 25% of 75% of B, then what is the ratio of A to B?

DP Head Constable 20/10/2022 (Shift-03)

- (a) 25 : 28 (b) 7 : 12
(c) 12 : 7 (d) 28 : 25

9. A pipe is cut into two pieces. The shorter piece is 40% of the length of the pipe. By how much percentage is the shorter piece less than the longer piece?

DP CONSTABLE 29/11/2023 (Shift-01)

- (a) $31\frac{2}{3}\%$ (b) $28\frac{2}{3}\%$
(c) $25\frac{1}{3}\%$ (d) $33\frac{1}{3}\%$

10. In an election, there were three candidates: Ram, Ramesh and Ganesh. Ram received 48% votes and Ramesh received 36% votes. If the total number of votes polled was 40,000, find the number of votes received by Ganesh.

DP CONSTABLE 30/11/2023 (Shift-01)

- (a) 6900 (b) 7800
(c) 6400 (d) 7400

11. The cost of an item increased to ₹250 from ₹225. What is the percentage increase in the cost?

DP CONSTABLE 20/11/2023 (Shift-02)

- (a) 16.66% (b) 13.33%
(c) 11.11% (d) 9.5%

12. The population of a town decreased from 3,68,000 in 2017 to 3,27,200 in 2020. What is the percentage decrease (to the nearest integer) in the population of the town?

DP CONSTABLE 23/11/2023 (Shift-01)

- (a) 10% (b) 11%
(c) 12% (d) 15%

13. Rohan's monthly salary is increased from ₹40,000 to ₹45,000. What is the percentage increment in his monthly salary?

DP CONSTABLE 03/12/2023 (Shift-01)

- (a) 12.5% (b) 12%
(c) 10.5% (d) 11%

14. Let $x = \frac{6}{7}$ and let $y = \frac{1}{x}$. y is _____ more than x .

DP CONSTABLE 16/11/2023 (Shift-03)

- (a) 33.66% (b) 33.33%
(c) 36.66% (d) 36.11%

15. Farida shifted to a job in the social sector at a monthly salary that was 28% less than the monthly salary she was getting in her previous job. If Farida's monthly salary in the job in the social sector is ₹27,000, what was her monthly salary (in ₹) in the previous job?

DP CONSTABLE 30/11/2023 (Shift-03)

- (a) 37500 (b) 36000
(c) 38250 (d) 38500

16. After a 15% decline, the income of Ajay stands at ₹12,500. What was his original income (₹ in)?

- (a) 2,25,000 (b) 1,80,625
(c) 2,50,000 (d) 2,40,000

17. Lucas's monthly income is ₹42,500. If his income increases by 18% then find his new monthly income (in ₹).

DP CONSTABLE 28/11/2023 (Shift-03)

- (a) 47,500 (b) 48,120
(c) 50,150 (d) 43,000

18. The monthly income of Amara is ₹80,200. If her income is decreased by 11%, then find her new monthly income (in ₹).

DP CONSTABLE 29/11/2023 (Shift-02)

- (a) 71,500 (b) 71,378
(c) 71,820 (d) 71,250

19. Ram received an annual salary of ₹48,580 in the year 2008. This was 25% more than his salary in 2007. What was his salary in 2007?

DP CONSTABLE 24/11/2023 (Shift-02)

- (a) ₹39,670 (b) ₹38,864
(c) ₹31,750 (d) ₹33,864

20. When adding 18 to a number, the result becomes $122\frac{1}{2}\%$ of the original number. Find the original number?

DP CONSTABLE 20/11/2023 (Shift-03)

- (a) 80 (b) 98
(c) 82 (d) 100

21. When a number is decreased by 24, it becomes 60% of itself. What will be the $\frac{2}{5}$ of that number.

- (a) 36 (b) 24
(c) 60 (d) 48

22. A student misread the number 97 as 79 while doing a calculation. find the percentage increase or decrease in his calculation.

DP CONSTABLE 22/11/2023 (Shift-03)

- (a) 19.55 increase
(b) 19% decrease
(c) 18% decrease
(d) 18.55% decrease

23. P aims to get total 360 marks out of 500. He gets 5% less than his target. How much does he get?

DP CONSTABLE 16/11/2023 (Shift-02)

- (a) 330 (b) 325
(c) 340 (d) 335

24. Arun receives a monthly salary. The ratio of his expenditure to savings is 8 : 2. What percentage of his salary does he spend?

DP CONSTABLE 23/11/2023 (Shift-01)

- (a) 40% (b) 20%
(c) 60% (d) 80%

TYPE - II

25. A man spends 78% of his monthly income and saves ₹1,100. What is his monthly income?

DP Head Constable 14/10/2022 (Shift-01)

- (a) ₹11,000 (b) ₹5,000
(c) ₹78,000 (d) ₹7,8000

26. In a government scheme, if an electricity bill is paid before due date, one gets a reduction of 13.5% on the amount of the bill. By paying the bill before due date, Ritu got a reduction of ₹6,075. The amount of her electricity bill was:

DPHC AWO/TPO 28/10/2022 (Shift-02)

- (a) ₹45,000 (b) ₹55,380
(c) ₹60,750 (d) ₹48,000

27. P's salary is 30% of Q's salary and Q's salary is 20% of R's salary. What percentage of R's salary is P's salary?

DP Head Constable 20/10/2022 (Shift-02)

- (a) 5% (b) 6%
(c) 8% (d) 10%

28. If the income of P is 25% less than Q, then the combined income of P and Q is what percentage more than P?

DP CONSTABLE 24/11/2023 (Shift-03)

- (a) 25% (b) 133.33%
(c) 125% (d) 75%

29. If a number P is 15% less than another number Q, and Q is 12% more than 156, then what is the value of P?

DP CONSTABLE 01/12/2023 (Shift-01)

- (a) 148.51 (b) 138.52
(c) 168.52 (d) 178.52

30. Student A got 25 marks more than the student B and the marks of A were equal to the 60% of the sum of their marks. What are the marks obtained by A and B respectively?

- (a) 75, 100 (b) 75, 50
(c) 45, 120 (d) 55, 80

31. If 45% of Ram's money is added to 50% of Soham's money, then the total amount will be 86% of Soham's money. What percentage of Ram's money did Soham have?

DP CONSTABLE 14/11/2023 (Shift-02)

- (a) 95% (b) 85%
(c) 137% (d) 125%

32. A sum of ₹18,910 is divided among Arjun, Raima and Sohan such that Arjun receives 20% less than Raima, while Sohan receives 25% more than Raima's share. What is the share (in ₹) of Sohan?

DP CONSTABLE 20/11/2023 (Shift-03)

- (a) 7,700 (b) 8,470
(c) 7,750 (d) 8,750

33. The price of an article has been reduced by 20%. In order to restore the original price, the new price must be increased by:

DP CONSTABLE 15/11/2023 (Shift-01)

- (a) 20% (b) 22%
(c) 25% (d) 28%

34. The income of A is 30% more than that of B. By how much per cent is B's income less than that of A?

DP Head Constable 19/10/2022 (Shift-01)

- (a) $23\frac{2}{13}\%$ (b) $23\frac{4}{13}\%$
(c) $23\frac{3}{13}\%$ (d) $23\frac{1}{13}\%$

35. Sushil's income is 22% less than Abhishek's income. Abhishek's income is what % more than Sushil's income?

DP CONSTABLE 23/11/2023 (Shift-02)

- (a) 25.8% (b) 30.8%
(c) 27.8% (d) 28.20%

36. By what percentage should a woman increase the speed of her car to reduce the time by 80% to cover a fixed distance?

- (a) 300% (b) 400%
(c) 200% (d) 100%

37. A man increases his consumption of sugar by 44.44% because the price of sugar is reduced by P%. Find P. (Expenditure remains constant.)

DP CONSTABLE 02/12/2023 (Shift-02)

- (a) $20\frac{10}{13}\%$ (b) $25\frac{10}{13}\%$
(c) $30\frac{10}{13}\%$ (d) $32\frac{10}{13}\%$

38. What percentage decrease in salaries would exactly cancel out a 30% increase.

DP CONSTABLE 03/12/2023 (Shift-02)

- (a) $21\frac{2}{13}\%$ (b) $22\frac{2}{13}\%$
(c) $24\frac{1}{13}\%$ (d) $23\frac{1}{13}\%$

TYPE - III

39. The length of the rectangle is increased by 5% and its breadth is decreased by 5%. The area of the new rectangle is:

DP CONSTABLE 30/11/2023 (Shift-02)

- (a) Decrease of 0.25%
(b) Neither increase nor decrease
(c) Decrease of 1%
(d) Increase of 0.25%

40. If the diameter of a circle is increased by 24%, then the percentage increase in the area is:

DP CONSTABLE 17/11/2023 (Shift-01)

- (a) 48.28%
(b) 53.76%
(c) 64.34%
(d) 50.46%

41. The salary of an employee is first increased by 45% and then it is decreased by 45%. What is the effective change in his salary?

DP CONSTABLE 03/12/2023 (Shift-02)

- (a) 20.25% increase
(b) 22.50% increase
(c) 20.25% decrease
(d) 22.50% decrease

42. If the breadth of the rectangle is decreased by 40% and its length is increased by 25%, find the percentage change in its area.

- (a) 75% decrease
(b) 25% decrease
(c) 90% decrease
(d) 5% increase

43. If Seema's salary increases by 10% in the first year and by 5% in the next year, then what is the net percentage increase in her salary after two years?

DP Head Constable 12/10/2022 (Shift-01)

- (a) 20.5% (b) 25.5%
(c) 30.5% (d) 15.5%

44. If the price of a product is decreased by 50%, then increased by 50% and then again increased by 50%, what is the net increase percentage in the price?

- (a) 13.5% (b) 9.5%
(c) 12.5% (d) 11.5%

45. The area of a circle is increased by 69% then its radius will increase by what percent.

- (a) 10% increase
(b) 20% increase
(c) 30% increase
(d) 40% increase

46. The price of an A.C. is first increased by 16% and later on, the price is decreased by 22% due to reduction in sales. Find the net percentage change in final price of the A.C.

DPHC AWO/TPO 28/10/2022 (Shift-01)

- (a) 19.25% decrease
(b) 9.52% increase
(c) 19.25% increase
(d) 9.52% decrease

47. If each side of an equilateral triangle is increased by 80%, then by what percentage will the area increase?

DP CONSTABLE 24/11/2023 (Shift-01)

- (a) 224% (b) 120%
(c) 238% (d) 240%

Percentage

48. The base of a right-angle triangle is increased by 60%. How much its height should be decreased to retain the same area?

DP CONSTABLE 14/11/2023 (Shift-03)

- (a) 45.2% (b) 37.5%
(c) 30% (d) 60%

49. The length of a rectangle is increased by 70% and its breadth is decreased by 35%. What is the net percentage increase in its area?

DP CONSTABLE 24/11/2023 (Shift-01)

- (a) 17.5% (b) 35%
(c) 10.5% (d) 14%

50. In the year 2001, the production of a factory decreased by 30%. But, in 2002, the production increased by 25%. What is the resulting change (increase or decrease) in production over these two years?

DP CONSTABLE 22/11/2023 (Shift-01)

- (a) 13.5% increase
(b) 12.5% decrease
(c) 12.5% increase
(d) 13.5% decrease

51. The price of an item is to be increased by 25% in two years. This year, the price increased to ₹140 from ₹120. What is the percentage increase in the next year?

DP CONSTABLE 15/11/2023 (Shift-01)

- (a) 7.14% (b) 4.71%
(c) 7.41% (d) 4.17%

52. If the radius of the base of a right circular cylinder is increased by 20% and the height is decreased by 30%, then what is the percentage increase/decrease in the volume?

DP CONSTABLE 21/11/2023 (Shift-02)

- (a) 0.5% decrease
(b) 0.8% decrease
(c) 0.5% increase
(d) 0.8% increase

53. What must be the total percentage change (rounded off to 1 decimal place) in the volume of a cuboid if its length and breadth are increased by 24% and 45%, respectively, while its height is decreased by 55%?

DP CONSTABLE 23/11/2023 (Shift-03)

- (a) 19.1% decrease
(b) 19.1% increase
(c) 14.9% increase
(d) 14.9% decrease

54. A number is first decreased by 30% and then, increased by 40%. The resulting number is again increased by 5%. What is the net increase or decrease percentage?

DP CONSTABLE 15/11/2023 (Shift-03)

- (a) 3.4% increase
(b) 3.4% decrease
(c) 2.9% decrease
(d) 2.9% increase

55. Venu invested a certain amount in shares. The shares rose by 25% on the first day, fell by 8% on the second day and fell by 10% the next day. The percentage profit or loss made by Venu is:

DP CONSTABLE 16/11/2023 (Shift-01)

- (a) 4.5% Profit (b) 4.5% Loss
(c) 3.5% Loss (d) 3.5% Profit

56. P invested a certain amount in shares. The shares rose successively by 20% and 30% on two consecutive days and fell by 25% and 11% in the next two days. What is the percentage increase or decrease in the value of the shares in four days?

DP CONSTABLE 16/11/2023 (Shift-03)

- (a) 4.13% increase
(b) 4.13% decrease
(c) 3.62% increase
(d) 3.62% decrease

57. A is first increased by 20 percent and then decreased by 30 percent. So the final value of A is what percentage of the initial value of A?

SSC GD 21/02/2024 (Shift-02)

- (a) 156% (b) 94%
(c) 84% (d) 74%

58. If the original price of a watch is ₹500 and it is increased by 10%, then decreased by 15%, what is the final price?

SSC GD 21/02/2024 (Shift-03)

- (a) ₹476.60 (b) ₹467.50
(c) ₹456.70 (d) ₹405.67

59. The tax imposed on an article is decreased by 17% and its consumption increases by 17%. Find the percentage change in revenue.

SSC GD 22/02/2024 (Shift-04)

- (a) 2.89% decrease
(b) 17% decrease
(c) 2.89% increase
(d) 17% increase

60. When a number is successively decreased by 10 percent, 15 percent and 56 percent, then it becomes 20196. What is that number?

SSC GD 24/02/2024 (Shift-02)

- (a) 80000 (b) 40000
(c) 60000 (d) 50000

61. The length and breadth of a cuboid are increased by 50 percent and 20 percent respectively. If its height is decreased by 30 percent, then what will be percentage increase in the volume of cuboid?

SSC GD 24/02/2024 (Shift-03)

- (a) 30% (b) 25%
(c) 26% (d) 20%

62. Instead of increasing a number successively by 40 percent and 60 percent, it is decreased by 44 percent. Resultant value is what percentage of the required correct value?

SSC GD 27/02/2024 (Shift-01)

- (a) 50% (b) 20%
(c) 28% (d) 25%

TYPE - IV

63. The population of a city increases at the rate of 10% per annum. If its population in 2005 was 2 crore, the population of the city in the year 2007 would be:

DP Head Constable 19/10/2022 (Shift-02)

- (a) 2.20 crore (b) 2.40 crore
(c) 2.42 crore (d) 2.22 crore

64. The price of an article is first decreased by 25% and then increased by 35%. If the resulting price is ₹ 405, what was the original price of the article?

DP CONSTABLE 29/11/2023 (Shift-02)

- (a) ₹300 (b) ₹350
(c) ₹450 (d) ₹400

65. Two years ago, population of a city was 15,62,500. The population increased by 4% in the first year and decreased by 4% in the second year. Find the present population.

DPHC AWO/TPO 27/10/2022 (Shift-01)

- (a) 15,63,000 (b) 15,60,000
(c) 15,62,000 (d) 15,61,000

66. The present population of a city is 17,500. the population decreases by 12% in the first year and increases by 8% in the second year. Find the population after 2 years.

DPHC AWO/TPO 27/10/2022 (Shift-03)

- (a) 15,350 (b) 21,320
(c) 16,632 (d) 28,500

67. Four years ago, the population of a city was 10,000. The annual growth rate of the population during the first two years was 20%. In the third and fourth years, there was a decrease in the population at the rate of 10% and 5%, respectively. What is the current population of the city after four years?

DP CONSTABLE 24/11/2023 (Shift-02)

- (a) 12312 (b) 10500
(c) 16632 (d) 14288

68. The value of a machine, purchased 3 years ago, depreciates at the annual rate of 15%. If its present value is ₹ 51,20,000, find its value after 4 years.

DP CONSTABLE 20/11/2023 (Shift-03)

- (a) ₹26,72,672 (b) ₹26,67,722
(c) ₹27,76,622 (d) ₹27,62,267

69. A company recorded growth of 10% and 15% in two successive years in its production. How many units did the company manufacture 2 years ago if the current production is 101200 units?

DP Head Constable 14/10/2022 (Shift-02)

- (a) 70000 (b) 80000
(c) 85000 (d) 90000

70. The population of a village 4 years ago was 3,20,000. Due to migration to cities, it decreases at the rate of 5% every year. Find the decrease in its population in the last 4 years.

DP CONSTABLE 02/12/2023 (Shift-03)

- (a) 83,595 (b) 53,985
(c) 59,358 (d) 93,558

71. The population of a village increases by 3% per year. If the current population is 75,556, then find the population of the village after 3 years (neglect the decimal part).

DP CONSTABLE 22/11/2023 (Shift-03)

- (a) 82563 (b) 82562
(c) 82526 (d) 85262

72. The population of a city in 2014 was 8000000. If in 2015, there is an increment of 8%, in 2016, there is a decrement of 35% and in 2017, there is an increment of 65%, then what is the population of the city at the end of the year 2017?

DP Head Constable 10/10/2022 (Shift-03)

- (a) 9266400 (b) 7000000
(c) 9635535 (d) 8400278

73. A person loses 18% of his money and after spending 87% of the remainder, he is left with ₹122. How much did he originally have? (Approximate value)

DP CONSTABLE 14/11/2023 (Shift-03)

- (a) ₹1,144.5 (b) ₹1,200
(c) ₹1,143.8 (d) ₹1,300

74. A man loses 25% of his money. After spending 60% of the remaining money, he has ₹360 left. What is the amount of money (in ₹) he originally had?

DP CONSTABLE 15/11/2023 (Shift-02)

- (a) 654 (b) 1962
(c) 2400 (d) 1200

75. A man spent 20% of his monthly income on rent and 45% of the remaining on clothes and he saves the remaining income. If his monthly savings are ₹308, find his monthly salary.

DPHC AWO/TPO 27/10/2022 (Shift-02)

- (a) ₹750 (b) ₹725
(c) ₹775 (d) ₹700

76. Rama spent $\frac{5}{8}$ of her weekly salary on rent and $\frac{1}{3}$ of the remaining on food, leaving ₹40/-available for other expenses. Rama's weekly salary (in ₹) is:

DP Head Constable 14/10/2022 (Shift-03)

- (a) 150 (b) 140
(c) 160 (d) 170

77. A person has some amount initially. He gives 30% of the amount to his wife. Then from the remaining amount, he gives 20%, 20% and 15%, respectively, to both his sons and one daughter. Now from the amount left, he pays

$\frac{1}{3}$ of the amount as house rent and the remaining amount of ₹33,600 he deposits in the bank. Find his initial amount.

DP CONSTABLE 17/11/2023 (Shift-03)

- (a) ₹1,60,000 (b) ₹1,40,000
(c) ₹1,20,000 (d) ₹1,00,000

TYPE - V

78. A reduction of 20% in the rate of sugar, enables Sudhir to get 6 kg more sugar for ₹960. What is the reduced rate of sugar per kg?

- (a) ₹32 (b) ₹36
(c) ₹40 (d) ₹35

79. An increase of 25 percent in the price of onions enables a woman to buy 5 kg less for ₹200. The increased price of onions per kg is:

SSC GD 11/01/2023 (Shift-01)

- (a) ₹5 per kg. (b) ₹8 per kg.
(c) ₹10 per kg. (d) ₹15 per kg.

80. If the price of potatoes increases by 10 percent, then by how much percent a user has to cut down on his consumption of potatoes, so that the expenditure on potatoes remains unchanged?

SSC GD 12/01/2023 (Shift-03)

- (a) 16.4% (b) 15.8%
(c) 12.5% (d) 9.1%

81. If the price of oil increase by 25 percent and Arpit increase his expenditure on oil by 10 percent, then by how much percent will he reduce the quantity of oil purchased?

SSC GD 25/01/2023 (Shift-02)

- (a) 22% (b) 42%
(c) 12% (d) 88%

82. When the price of a car is increased by 5%, its sales decrease by 16%. Calculate the percentage effect on total revenue.

SSC GD 16/11/2021 (Shift-02)

- (a) 5% decrease (b) 5% increase
(c) 9% increase (d) 11.8% dec.

83. When the price of an article is increased by 20%, the Gupta family rearranges its monthly budget in such a way that only 8% additional money is spent on the said item. By what percent should they reduce the consumption of that article to manage the increased amount?

SSC GD 24/11/2021 (Shift-02)

- (a) 14 (b) 8
(c) 10 (d) 12

84. A decrease of $12\frac{1}{2}\%$ in the price of wheat enables a person to buy $2\frac{1}{2}$ kg more wheat for ₹280. Initially, how much wheat (in kg) could the person buy?

SSC GD 22/11/2021 (Shift-03)

- (a) 20 (b) 12.5
(c) 15 (d) 17.5

TYPE - VI

85. Aman spends 74% of his income. If his expenditure increases by 30% and savings by 25%, then what is the percentage increase in his income?

SSC GD 18/11/2021 (Shift-01)

- (a) 27.8% (b) 26.8%
(c) 28.7% (d) 27.2%

86. A person spends 80% of his income. His income increases by 30% and his expenditure also increases by 10%. By what percentage will his savings increase?

DP CONSTABLE 30/11/2023 (Shift-01)

- (a) 104% (b) 110%
(c) 90% (d) 98%

87. A man spends 58% of his income. His income increases by 30% and his expenditure also increases by 25%. Find the percentage of increase in his savings.

SSC GD 23/02/2024 (Shift-04)

- (a) 42.5% (b) 66.2%
(c) 55.7% (d) 36.9%

88. The income of a person is ₹95,000 and his expenditure is ₹75,000. If his income is increased by 18% and the expenditure by 12%, then what will be the percentage increase in his saving?

SSC GD 10/01/2023 (Shift-01)

- (a) 40.6% (b) 40.8%
(c) 40.4% (d) 40.5%

89. The expenditure of a man is 70% of his income. If his income will successively increase by 20% and 50%, then his new expenditures is how much percentage more/less than his previous expenditure, so that his new savings become 2.5 times of the previous savings?

SSC GD 11/01/2023 (Shift-04)

- (a) 50% inc. (b) 50% dec.
(c) 54% dec. (d) 54% inc.
90. A man saves 25% of his monthly income. Due to a 20% increase in his income, his expenditure also increases by 20%. Now he can save ₹1,000 per month. Find his original monthly income.

SSC GD 24/01/2023 (Shift-01)

- (a) ₹7,500 (b) ₹6,500
(c) ₹5,500 (d) ₹5,000
91. The monthly income of a person was ₹15,400 and his monthly expenditure was ₹7,200. His income increased by 20% and his expenditure increased by 5%. Find the percentage increase in his savings.

SSC GD 30/01/2023 (Shift-01)

- (a) 60.31% (b) 65.24%
(c) 33.17% (d) 35.12%
92. When the price of an article was reduced by 20%, its sale increased by 80%. What was the net effect on the revenue?

DPHC AWO/TPO 27/10/2022 (Shift-01)

- (a) 14% decrease
(b) 21% decrease
(c) 44% increase
(d) 21% increase

93. If the price of a movie ticket increased by $12\frac{1}{2}\%$ and the sale of tickets also increased by $8\frac{1}{2}\%$, then find % change in income.

- (a) 21.875% (b) 22.6750%
(c) 20.675% (d) 22.0625%

94. The price of an article is reduced by 25% and its daily sale is increased by 30%. The net effect on the daily sale receipts is:

DP CONSTABLE 24/11/2023 (Shift-02)

- (a) $2\frac{1}{2}\%$ decrease
(b) $2\frac{1}{2}\%$ increase
(c) 3% increase
(d) 3% decrease

TYPE - VII

95. In an election, a candidate who gets 35% of the total votes is defeated by a majority of 150 votes. Find the total number of votes recorded.

DP Head Constable 18/10/2022 (Shift-03)

- (a) 500 (b) 600
(c) 800 (d) 700

96. In an election, between two candidates Ram and Mohan, Ram secured 40% of the votes and was defeated by a majority of 1200 votes. Find the total number of recorded votes.

DP Head Constable 18/10/2022 (Shift-02)

- (a) ₹5,500 (b) ₹6,000
(c) ₹7,000 (d) ₹5,000

97. In an election, there were two candidates Ram and Soham. The total number of voters in this constituency was 85800 and 80% of the total votes were polled. If 65% of the polled votes were cast in favour of Soham, how many votes were received by Ram?

DP CONSTABLE 01/12/2023 (Shift-03)

- (a) 34034 (b) 38038
(c) 26026 (d) 24024

98. In a chief election, a candidate got 55% of the total valid votes. 6% of the total votes were declared invalid. If the total number of votes is 30,000, then the number of valid votes polled in favour of the candidate is:

DP CONSTABLE 28/11/2023 (Shift-01)

- (a) 15,510 (b) 15,500
(c) 15,000 (d) 16,000

99. In an election between two candidates, 80% of the voters cast their votes, out of which 5% of the votes were declared invalid. A candidate got 5,700 votes, which were 75% of the total valid votes. Find the total number of voters enrolled in that election.

DP CONSTABLE 22/11/2023 (Shift-02)

- (a) 9500 (b) 9000
(c) 10000 (d) 12000

100. In an election between three candidates A, B and C, 80% of the registered voters voted and all the votes were valid. Candidate B got 50% less votes than A, and the difference between the number of votes secured by B and C was 10000. If B got 10% more votes than C, then the number of voters registered on the voting list is:

SSC GD 12/01/2023 (Shift-04)

- (a) 175000 (b) 430000
(c) 220000 (d) 537500

101. In an election between A and B, B secured 16,200 votes and defeated A by 8% of the total votes. If there are no invalid votes, what is the difference in votes between A and B?

SSC GD 13/01/2023 (Shift-01)

- (a) 2300 (b) 2500
(c) 2200 (d) 2400

102. In an election contested by two parties, party A secured 16 percent of the total votes more than party B. If party B got 25200 votes and there are no invalid votes, by how many votes did party B lose the election?

SSC GD 13/01/2023 (Shift-01)

- (a) 9600 (b) 1800
(c) 5400 (d) 3600

103. In an election between two candidates, One candidate got 48% of the total valid votes. 18% of the votes were invalid. If the total number of votes was 17500, then what was the number of valid votes the other candidate got?

SSC GD 12/01/2023 (Shift-04)

- (a) 7512 (b) 14350
(c) 7462 (d) 8750

104. In an election between two candidates, one who gets 64% of the votes polled is elected by a majority of 4,340 votes. What is the total number of votes polled? (considering that all the polled votes are valid)

SSC GD 12/01/2023 (Shift-02)

- (a) 15500 (b) 16500
(c) 16000 (d) 15000

105. In an election, there were two candidates A and B. The total number of voters in the constituency was 90000 and 70% of the total votes were polled. If 60% of the polled votes were cast in favour of A, how many votes were received by B?

SSC GD 10/01/2023 (Shift-03)

- (a) 28500 (b) 25200
(c) 28700 (d) 28600

TYPE - VIII

106. In an exam, a student got 64 marks and still failed by 20 percent marks. If the passing percentage is 40 percent, then what are the maximum marks of the exam?

- (a) 160 (b) 320
(c) 200 (d) 180

107. Rajiv scored 20 percent marks in an exam and failed by 25 marks. If he scores 50 percent marks, then he gets 20 marks more than passing marks. What is the passing marks for the exam?

- (a) 40 (b) 35
(c) 55 (d) 45

108. A student scores 75% in a test and gets 30 marks more than another student who scored 60%. What is the maximum marks in the test?

SSC GD 20/02/2024 (Shift-01)

- (a) 120 (b) 100
(c) 150 (d) 200

Percentage

109. In an exam, out of total number of appeared students 93 percent students passed and 9275 students failed. What is the total number of students appeared in the exam?

SSC GD 20/02/2024 (Shift-01)

- (a) 135550 (b) 132550
(c) 132500 (d) 135500
110. Naveen scored 21 percent marks in an exam and failed the exam by 25 marks. If he gets 46 percent marks, he will fail the exam by 5 marks. If so, what is the maximum marks in the exam?

SSC GD 23/02/2024 (Shift-02)

- (a) 100 (b) 60
(c) 80 (d) 120
111. In an exam, Sandeep got 55 percent less marks than the passing marks. He got 223.2 marks. If the passing percentage is 62 percent, then what are the maximum marks of the exam?

SSC GD 26/02/2024 (Shift-03)

- (a) 400 (b) 800
(c) 600 (d) 200
112. Umesh scored 15 percent marks in an exam and failed by 30 marks. If he scores 60 percent marks, then he gets 15 marks more than passing marks. What should be the passing marks for the exam?

SSC GD 05/03/2024 (Shift-02)

- (a) 44 (b) 45
(c) 50 (d) 40
113. In an examination, there are three subjects of 100 marks each. A student scores 75% in the first subject and 86% in the second subject. He scored 68% in aggregate. His percentage of marks in the third subject is:

SSC GD 13/01/2023 (Shift-02)

- (a) 65% (b) 48%
(c) 56% (d) 43%
114. In an exam, a student scored 40% on the first paper out of a total of 200. How much percentage should the student score in the second paper out of 200 if he has to get 60% marks overall?

SSC GD 24/01/2023 (Shift-03)

- (a) 60% (b) 85%
(c) 75% (d) 80%
115. A candidate who gets 50 percent marks fails by 100 marks but another candidate who got 78 percent marks gets 30 percent more than the passing marks. The maximum marks is:

SSC GD 30/01/2023 (Shift-03)

- (a) 1200 (b) 800
(c) 1500 (d) 1000
116. A student secured 65% marks in an examination but it was 20 less than the qualifying marks. Another student secured 80% marks in the same examination and these marks were 10 more than the qualifying marks. So what is the total marks of the exam?

- (a) 200 (b) 500
(c) 400 (d) 300
117. Vimal secured 46% marks in the exam and failed to qualify in the exam by 10 marks. If he secured 52% marks he would have secured 8 marks more than what was the minimum qualifying marks. What were the minimum marks one had to score to qualify in the exam?

- (a) 156 (b) 138
(c) 148 (d) 146
118. Jack obtained 45% marks in a test and failed by 18 marks. If he obtained 65% marks, he would have got 6 marks more than the minimum marks required to pass the test. How much were the maximum marks one could obtain in that test?

(a) 80 (b) 130
(c) 120 (d) 140

TYPE - IX

119. If the numerator of a fraction is increased by 17% and its denominator is decreased by 12%, the value of the fraction is $\frac{39}{44}$. What is the original fraction?

- (a) $\frac{2}{3}$ (b) $\frac{3}{7}$
(c) $\frac{1}{3}$ (d) $\frac{7}{8}$

120. If the numerator of a fraction is increased by 25% and its denominator is decreased by 10%, the value of the fraction is $\frac{15}{16}$. What is the original fraction?

- (a) $\frac{3}{4}$ (b) $\frac{11}{13}$
(c) $\frac{43}{47}$ (d) $\frac{27}{40}$

121. There are only two hostels in XYZ University, Hostel P and Hostel Q, where in an equal number of students were living in year 2021. The total number of persons living in both hostels of XYZ University fell by 33% to 8,375 in 2022 from 2021. How many students were living in Hostel P in 2021?

DP CONSTABLE 30/11/2023 (Shift-03)

- (a) 5,612 (b) 5,750
(c) 12,500 (d) 6,250
122. The ratio of the numbers of boys and girls in a school is 6 : 5. 125% of the boys and 36% of the girls are scholarship holders, then the percentage of students who do not get scholarship is:

DP CONSTABLE 22/11/2023 (Shift-01)

- (a) 60% (b) 80%
(c) 70% (d) 50%
123. In a school, 45% of the staff is female. 80% of the female staff and 60% of the male staff are postgraduates. Find the percentage of the non-postgraduate staff in the school.

DP CONSTABLE 15/11/2023 (Shift-03)

- (a) 42% (b) 64%
(c) 31% (d) 53%
124. The annual salary of Aprajita is 150% of Sonia's annual salary. Sonia's salary rises by 20% after an increment, whereas Aprajita's salary increases by 12%. If the initial salary of Sonia was ₹ 6,00,000, then what is the salary of Aprajita (in ₹) now after a hike?

DP CONSTABLE 22/11/2023 (Shift-03)

- (a) 1,08,000 (b) 9,00,000
(c) 10,08,000 (d) 7,20,000
125. The sales of an automobile company increased by 20% in 2020 as compared to the year 2019. However in 2021, it fell by 20% as compared to the previous year. How many units did the company sell in 2021, if it sold 6000 units in the year 2019?

DP Head Constable 13/10/2022 (Shift-03)

- (a) 5760 (b) 6000
(c) 5600 (d) 5860
126. A student's marks (out of 100 in each subject) changed from the first term exams to the second term exams as follows: in Mathematics from 60 to 78, in Science 84 to 82, in Social studies 76 to 64. What is the percentage change in his marks from the first term exams to the second term exams?

DP CONSTABLE 02/12/2023 (Shift-03)

- (a) 1.81% increase
(b) 2.24% increase
(c) 2.24% decrease
(d) 1.81% decrease
127. The salaries of P and Q together amount to ₹ 4,32,000. P and Q spend 75% and 61% of their salaries, respectively. If their savings are equal, then what is P's salary?

DP CONSTABLE 29/11/2023 (Shift-03)

Percentage

- (a) ₹2,36,250 (b) ₹2,36,750
(c) ₹2,63,750 (d) ₹2,63,250
128. The sum of money A initially had was 20% less than the sum of money B had. If B gave 16% of her money to her brother, by what percentage should A's sum increase so that A and B finally have identical amounts?
DP CONSTABLE 24/11/2023 (Shift-03)
(a) 6% (b) 4%
(c) 4.5% (d) 5%
129. If the income tax is increased by 19%, the net income is reduced by 1%. The rate of income tax is
(a) 6% (b) 4%
(c) 5% (d) 7.2%
130. A company is earning an income from which expenditure (other than tax) is deducted to get the amount of profit earned. The company has to pay tax of 22% on the profit earned. If net profit after paying taxes is ₹2,340, which is 18% of expenditure (other than taxes), what was the income (in ₹) of the company?
DP CONSTABLE 01/12/2023 (Shift-02)
(a) 16,000 (b) 16,667
(c) 13,000 (d) 19,000
131. Mohan starts a business with a capital of ₹1,70,000. He incurs a loss of 4% during the first year. But he makes a profit of 5% during the second year on his remaining investment. Finally, he makes a profit of 25% on his new capital during the third year. Find his total profit at the end of three years.
DPFC AWO/TPO 27/10/2022 (Shift-02)
(a) ₹42,200 (b) ₹5,200
(c) ₹44,200 (d) ₹43,200
132. G invested ₹x in a scheme which gives 12% return. Finally, he received ₹12,000 more amount than the invested amount. How much money (in ₹) did he invest in the scheme?
DP CONSTABLE 22/11/2023 (Shift-01)
(a) 120000 (b) 100000
(c) 80000 (d) 112000
133. Rajneesh decided to invest in gold every month. He buys gold worth ₹ 65,000. He gets a rebate of 8% on it. After getting the rebate, he pays tax at the rate of 10%. Next month, he buys ₹ 70,000 with a rebate of 10% and tax 12%. What is the percentage change in his investment from the first month to the second month?
DP CONSTABLE 22/11/2023 (Shift-02)
- (a) 7.26 % Loss
(b) 6.08 % Profit
(c) 7.26% Profit
(d) 8 % Loss
134. A salesman earns a 2% of return on $\frac{1}{4}$ of his capital, 4% on $\frac{1}{2}$ of capital and 10% on the remaining. Find the average rate of return he earned on his capital.
DP CONSTABLE 21/11/2023 (Shift-02)
(a) 15% (b) 20%
(c) 10% (d) 5%
135. A town has a population of 7,000. If the percentage increase in the male and female population is 11% and 8%, respectively, the new population will be 7,680. Find the number of female citizens in the town.
DP CONSTABLE 21/11/2023 (Shift-01)
(a) 2500 (b) 4000
(c) 4500 (d) 3000
136. 25 chairs cost 80 percent more than 20 tables. If 22 tables cost ₹10648, then what is the cost of 50 chairs?
BSC GD 06/03/2024 (Shift-03)
(a) ₹34888 (b) ₹34848
(c) ₹38848 (d) ₹34488
137. 30% of the men are over the age of 25 years, and 80% are under or equal to 50 years of age. Football is played by 20% of all men. What percentage of football players are under or equal to 50 years of age, if 20% of men over the age of 50 years play football.
BSC GD 16/01/2023 (Shift-02)
(a) 77% (b) 80%
(c) 71% (d) 82%
138. A vendor sells 40 percent of oranges he had and throws away 10 percent of the remainder. Next day he sells 50 percent of the remaining and throws away the rest. What percent of his oranges does the vendor throw?
BSC GD 24/01/2023 (Shift-04)
(a) 45 % (b) 60 %
(c) 33 % (d) 27 %
139. Veer buys 200 guavas for ₹1,800. Some of these guavas are rotten and are thrown away. He sells the remaining guavas at ₹14 each and makes a profit of ₹230. The percentage of guavas thrown away is:
BSC GD 25/01/2023 (Shift-01)
(a) 27.5% (b) 30.8%
(c) 14.5% (d) 28.5%
140. The total population of a village is 4000. The population of the village becomes 4500 when the number of males and females increases by 10% and 20% respectively. What was the number of males in the village before the new members arrived?
(a) 2500 (b) 4000
(c) 2000 (d) 3000
141. A grocery store purchases 600 bottles of juice packed by two different sellers. 20% goods is taken by first seller, and 80% by the second. The selling price of one bottle is ₹ 25. After observing the second seller's goods, the shopkeeper comes to know that 25% goods can be used till one day only. He decides to return the goods. How much money will he get from second seller?
(a) ₹4000 (b) ₹3750
(c) ₹3000 (d) ₹3500
142. Moris spent 25% of his income on food. He got an increment of ₹ 1000, but he did not expand his expense on food stuffs. Therefore, his expense of food decreased to 20%. What was his initial income?
(a) ₹6500 (b) ₹6000
(c) ₹5000 (d) ₹4000
143. To pass an exam, 50% of the marks is required. The exam consists of two papers, a student secured 40% marks in the first paper of 200 marks. What is the minimum percentage of marks he must obtain in the second paper of 150 marks to pass the examination?
(a) 68% (b) 64%
(c) 65% (d) 60%
144. 82% of the students passed in a class and 2% of them were placed in the re-examination category. The number of failed students is 592. What was the total number of students in the class?
(a) 2700 (b) 3700
(c) 3600 (d) 2000
145. A student had got a few marks from maximum marks probably. these marks were 75% as %. if one more questions would be added of one mark in the exam then his obtained marks percentage would have 76% what were the initial maximum marks of the exam?
(a) 24 (b) 25
(c) 20 (d) 19

Percentage

146. In a test, Chandran scored 16 marks out of 45 marks. He has to give one more test and score 48% in order to pass. If the total marks of the second test was 80 and if he managed only to pass then how much did he score?

- (a) 55 (b) 44
(c) 48 (d) 60

147. In a class of 135 students, the number of boys is twice that of girls. One-sixth of the boys and one-third of the girls failed in the final examination. Find the percentage of students who passed the examination.

- (a) 75% (b) 71.45%
(c) 77.78% (d) 81.23%

148. A class of 50 girls and 70 boys sponsored a concert. If 40% of the girls and 50% of the boys participated in the programme, then approximately what percent of the class was present in the programme?

- (a) 48% (b) 44%
(c) 42% (d) 46%

149. The ratio of the number of boys and girls in a school is 5: 6. 20% boys and 25% girls are scholarship holders. How many students do not get scholarship?

- (a) $\left(\frac{750}{11}\right)\%$ (b) $\left(\frac{8000}{11}\right)\%$

- (c) $\left(\frac{950}{11}\right)\%$ (d) $\left(\frac{850}{11}\right)\%$

150. The population of a town is 9000. $\frac{5}{9}$ th of them are males and rest

females. 40% of the males are married, so the percentage of married females is

- (a) 50% (b) 40%

- (c) 45% (d) None of these

ANSWER KEY

1.	(b)	2.	(a)	3.	(c)	4.	(c)	5.	(b)	6.	(d)	7.	(a)	8.	(a)	9.	(d)	10.	(c)
11.	(c)	12.	(b)	13.	(a)	14.	(d)	15.	(a)	16.	(c)	17.	(c)	18.	(b)	19.	(b)	20.	(a)
21.	(b)	22.	(d)	23.	(d)	24.	(d)	25.	(b)	26.	(a)	27.	(b)	28.	(b)	29.	(a)	30.	(b)
31.	(d)	32.	(c)	33.	(c)	34.	(d)	35.	(d)	36.	(b)	37.	(c)	38.	(d)	39.	(a)	40.	(b)
41.	(c)	42.	(b)	43.	(d)	44.	(c)	45.	(c)	46.	(d)	47.	(a)	48.	(b)	49.	(c)	50.	(b)
51.	(a)	52.	(d)	53.	(a)	54.	(d)	55.	(d)	56.	(a)	57.	(c)	58.	(b)	59.	(a)	60.	(c)
61.	(c)	62.	(d)	63.	(c)	64.	(d)	65.	(b)	66.	(c)	67.	(a)	68.	(a)	69.	(b)	70.	(c)
71.	(b)	72.	(a)	73.	(a)	74.	(d)	75.	(d)	76.	(c)	77.	(a)	78.	(a)	79.	(c)	80.	(d)
81.	(c)	82.	(d)	83.	(c)	84.	(d)	85.	(c)	86.	(b)	87.	(d)	88.	(d)	89.	(a)	90.	(d)
91.	(c)	92.	(c)	93.	(d)	94.	(a)	95.	(a)	96.	(b)	97.	(d)	98.	(a)	99.	(c)	100.	(d)
101.	(d)	102.	(a)	103.	(c)	104.	(a)	105.	(b)	106.	(b)	107.	(c)	108.	(d)	109.	(c)	110.	(c)
111.	(b)	112.	(b)	113.	(d)	114.	(d)	115.	(d)	116.	(a)	117.	(c)	118.	(c)	119.	(a)	120.	(d)
121.	(c)	122.	(c)	123.	(c)	124.	(c)	125.	(a)	126.	(a)	127.	(d)	128.	(d)	129.	(c)	130.	(a)
131.	(c)	132.	(b)	133.	(c)	134.	(d)	135.	(d)	136.	(b)	137.	(b)	138.	(c)	139.	(a)	140.	(d)
141.	(c)	142.	(d)	143.	(b)	144.	(b)	145.	(a)	146.	(b)	147.	(c)	148.	(d)	149.	(d)	150.	(a)

TYPE - I

1. Select the correct statement.

DP CONSTABLE 24/11/2023 (Shift- 03)

- (a) $\text{Loss}\% = \frac{\text{SP} - \text{CP}}{\text{SP}} \times 100$
 (b) $\text{Profit}\% = \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100$
 (c) $\text{Loss}\% = \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100$
 (d) $\text{Profit} = \frac{\text{SP} - \text{CP}}{\text{SP}} \times 100$

2. Namita bought a cell phone for ₹2,575 and sold it at a profit of 12%. The selling price (in ₹) is:

DP Head Constable 13/10/2022 (Shift- 01)

- (a) 2557 (b) 2657
 (c) 2874 (d) 2884

3. If a box was sold at a loss of 350 for ₹4,650, then the loss percentage is equal to:

DP CONSTABLE 14/11/2023 (Shift- 01)

- (a) 5% (b) 8%
 (c) 7% (d) 6%

4. Mohit purchased a table for ₹3,500 and due to some scratches on it top, he sold it for ₹3,200. What is his loss percentage (rounded off to two decimals)?

DP CONSTABLE 02/12/2023 (Shift- 01)

- (a) 8.57% (b) 8.55%
 (c) 8.56% (d) 8.58%

5. The cost price of an item is one fourth of its selling price. What is the gain or loss percentage on that item?

DP CONSTABLE 20/11/2023 (Shift- 02)

- (a) Profit of 100%
 (b) Profit of 300%
 (c) Loss of 100%
 (d) Loss of 300%

6. Ranjan purchased a bicycle for ₹5,000 and paid ₹250 for its transportation. If he sells the bicycle for ₹5,075, find his profit or loss percentage.

DP Head Constable 10/10/2022 (Shift- 01)

- (a) Loss of 3.33%
 (b) Loss of 33.3%
 (c) Loss of 1.75%
 (d) Profit of 3.33%

7. If the cost price and selling price of an article are in the ratio of 13 : 17, then the profit percentage is:

DP CONSTABLE 01/12/2023 (Shift- 03)

- (a) $30\frac{8}{13}\%$ (b) $30\frac{11}{13}\%$
 (c) $30\frac{7}{13}\%$ (d) $30\frac{10}{13}\%$

8. What is the loss percentage when the cost price and the selling price of an item are in the ratio 20 : 17?

DP Head Constable 12/10/2022 (Shift- 01)

- (a) 21% (b) 12%
 (c) 17% (d) 15%

9. Lalita bought 10 water bottles for ₹18 each and sold them for ₹20 each. What is her overall profit percentage?

DP CONSTABLE 24/11/2023 (Shift- 02)

- (a) 13% (b) 11%
 (c) $11\frac{1}{9}\%$ (d) $13\frac{2}{9}\%$

10. Ramesh sold his bike for ₹16,384 and incurred a loss of 20%. At what price should he have sold the bike to gain a profit of 30%?

DPEC AWO/TPO 28/10/2022 (Shift-01)

- (a) ₹26,800 (b) ₹26,724
 (c) ₹26,624 (d) ₹27,824

11. By selling an ornament for ₹720, Chitra loses 10%. At what price should she sell it in order to gain 15%?

DP Head Constable 14/10/2022 (Shift- 03)

- (a) ₹800.00 (b) ₹745.20
 (c) ₹720.00 (d) ₹920.00

12. Ram sold a chair at a profit of $7\frac{1}{2}\%$. If he had sold it for ₹1,430 more, he would have gained 35%. What is the cost price of the chair?

DP CONSTABLE 30/11/2023 (Shift- 03)

- (a) ₹4,800 (b) ₹5,000
 (c) ₹5,200 (d) ₹4,000

13. A loss of 25% gets converted into a profit of 12% when the selling price of an article is increased by ₹111. Find the cost price of the article.

DP CONSTABLE 24/11/2023 (Shift- 01)

- (a) ₹300 (b) ₹290
 (c) ₹295 (d) ₹305

14. A machine is sold for ₹4,800 at a gain of 20%. What would have been the gain or loss percentage if it had been sold for ₹4,500?

DP CONSTABLE 16/11/2023 (Shift- 03)

- (a) Profit of 12.5%
 (b) Loss of 12.5%
 (c) Loss of 25%
 (d) Profit of 25%

15. Raju lost 13% by selling a radio set for ₹4,524. What percentage of profit would he have earned by selling it for ₹6,400 (rounded off to two decimal places)?

DP CONSTABLE 17/11/2023 (Shift- 01)

- (a) 28.52% (b) 23.08%
 (c) 21.05% (d) 25.25%

TYPE - II

16. The cost price of 19 items is equal to the selling price of 21 items. The loss percentage is?

DP Head Constable 18/10/2022 (Shift- 03)

- (a) $8\frac{9}{11}\%$ (b) $7\frac{10}{21}\%$
 (c) $9\frac{11}{21}\%$ (d) $11\frac{1}{21}\%$

17. The selling price of 32 items is equal to the cost price of 45 items. What is the percentage of profit made on the sale of each item?

DP CONSTABLE 14/11/2023 (Shift- 03)

- (a) 40.75% (b) 40.5%
 (c) 40.725% (d) 40.625%

18. The selling price of 61 items is equal to the cost price of 53 items. What is the profit or loss percentage (rounded off to two decimal places)?

DP CONSTABLE 17/11/2023 (Shift- 03)

- (a) Profit of 13.11%
 (b) Loss of 13.11%
 (c) Loss of 8.25%
 (d) Profit of 8.25%

19. If the cost price of 6 pens is the same as the selling price of 5 pens, find the profit/loss percentage.

SSC GD 20/02/2024 (Shift-02)

- (a) Loss 10% (b) Profit 20%
 (c) Profit 10% (d) Loss 20%

20. If the purchase price of 5 shirts is equal to the selling price of 3 shirts, find the profit percentage.

SSC GD 21/02/2024 (Shift-02)

- (a) Profit 55.33%
 (b) Profit 63.33%
 (c) Profit 66.66%
 (d) Profit 33.66%

Profit and Loss

21. If a vendor decided to sell his goods as the selling price of 10 mangoes is equal to the cost price of 12 mangoes, then the profit percentage is:

DP Head Constable 12/10/2022 (Shift- 03)

- (a) 20% (b) 30%
(c) 40% (d) 10%

22. By selling 90 pens, a shopkeeper gains the selling price of 30 pens. What is his gain percentage?

DP CONSTABLE 03/12/2023 (Shift- 02)

- (a) 70% (b) 50%
(c) 40% (d) 60%

23. On selling 36m of Patua (Jute), a shopkeeper makes a profit of an amount equal to the selling price of 12 m of Patua (Jute). Find the percentage of his profit.

SSC GD 16/11/2021 (Shift-01)

- (a) 45% (b) 40%
(c) 55% (d) 50%

TYPE - III

24. If the loss is $\frac{1}{6}$ of the selling price of an article, then the loss percentage is :

DP CONSTABLE 21/11/2023 (Shift- 03)

- (a) $14\frac{2}{7}\%$ (b) $16\frac{1}{7}\%$
(c) $13\frac{1}{7}\%$ (d) $12\frac{3}{7}\%$

25. By selling an article, a shopkeeper makes a profit of 30% of its selling price. Find his profit percentage.

DP CONSTABLE 15/11/2023 (Shift- 02)

- (a) 44% (b) 40%
(c) $46\frac{1}{3}\%$ (d) $42\frac{6}{7}\%$

26. Gopi purchased an article at $\frac{7}{8}$ of its selling price. Had he sold it at 20% more than the selling price, then what would his profit percentage be ?

DP CONSTABLE 23/11/2023 (Shift- 02)

- (a) $37\frac{1}{7}\%$ (b) 37%
(c) 35% (d) $35\frac{1}{7}\%$

TYPE - IV

27. The percentage profit earned by selling an article for ₹1,960 is equal to the loss percentage incurred by selling the same article for ₹1,640. At what price should the article be sold to make a 20% profit?

DPEC AWO/TPO 28/10/2022 (Shift-03)

- (a) ₹1,800 (b) ₹1,020
(c) ₹2,160 (d) ₹3,600

28. The percentage profit earned by selling an article for ₹1,800 is equal to the percentage loss incurred by selling the same article for ₹1,160. At what price should the article be sold to make a 20% profit?

DP CONSTABLE 28/11/2023 (Shift- 02)

- (a) ₹1,776 (b) ₹1,550
(c) ₹1,480 (d) ₹1,650

29. The profit earned on selling an article for ₹4550 is 5 times of the loss incurred on selling the same article for ₹3290. What will be the selling price of the article to earn a profit of 20 percent?

SSC GD 24/02/2024 (Shift-02)

- (a) ₹4500 (b) ₹4000
(c) ₹3900 (d) ₹4200

30. The profit earned on selling an article for ₹3300 is 10 times of the loss incurred on selling the same article for ₹2970. What will be the selling price of the article to earn a profit of 30 percent?

SSC GD 07/03/2024 (Shift-02)

- (a) ₹3900 (b) ₹4200
(c) ₹3500 (d) ₹4000

31. The profit made by selling an article for ₹1800 is thrice the profit that would have been made by selling it for ₹1350. Find the cost price (in ₹) of the article.

- (a) 1250 (b) 1175
(c) 1200 (d) 1125

32. The profit made by selling an article for ₹5800 is equal to the loss incurred by selling the article for ₹2200. Find the profit (in ₹)

- (a) 2100 (b) 1800
(c) 1200 (d) 1500

33. The profit percentage made on an item sold for ₹1,920 is equal to the loss percentage made on selling the same item for ₹1,280. What should the item be sold for in order to make a 25% profit ?

SSC GD 07/02/2023 (Shift-02)

- (a) ₹1,940 (b) ₹2,020
(c) ₹2,000 (d) ₹1,960

TYPE - V

34. Arun bought 150 guavas for ₹525 and sold them at the rate of ₹36 per dozen. What is the profit or loss percentage of Arun (correct up to two decimal places)?

DP CONSTABLE 14/11/2023 (Shift- 02)

- (a) Loss of 14.29%
(b) Profit of 14.29%
(c) Loss of 16.67%
(d) Profit of 16.67%

35. If Malay buys guavas at ₹300 per kg and sells them at ₹25 per 100 gm, then he will have (rounded off to 2 decimal places):

DP CONSTABLE 15/11/2023 (Shift- 01)

- (a) Loss of 16.67%
(b) Profit of 16.67%
(c) Profit of 25.25%
(d) Loss of 25.25%

36. If David purchases 10 bananas for ₹45, ₹25 and sells 9 bananas for ₹45, then what is the gain percentage?

DP CONSTABLE 21/11/2023 (Shift- 02)

- (a) 100% (b) 60%
(c) 65% (d) 87%

37. A retailer purchased at a rate of 11 mangoes for ₹100 and sold at a rate of 10 mangoes for ₹110. The percentage of profit for per mango sold is:

DP Head Constable 20/10/2022 (Shift - 01)

- (a) 11% (b) 22%
(c) 21% (d) 15.5%

38. A man buys 35 mangoes for a rupee. How many mangoes had he sold for a rupee so that there is a loss of 30 percent?

SSC GD 20/02/2024 (Shift-04)

- (a) 50 (b) 33
(c) 27 (d) 45

39. A person bought some pens at the rate of 20 for a rupee and sold them at the rate of 15 for a rupee. What is the profit percentage?

SSC GD 22/02/2024 (Shift-02)

- (a) 35% (b) 33.33%
(c) 40% (d) 15%

40. Dinesh purchases 12 dozens of apples at the rate of ₹300 per dozen. He sells each apple at the rate of ₹30. What is the profit of Dinesh?

SSC GD 26/02/2024 (Shift-03)

- (a) 15% (b) 20%
(c) 25% (d) 10%

41. If 60 tables cost ₹14800, then how many tables should be sold for ₹14800 to make a profit of 20 percent?

SSC GD 27/02/2024 (Shift-04)

- (a) 40 (b) 54
(c) 50 (d) 48

42. Ruby bought 20 buttons for ₹1. How many buttons she must sell for ₹1 in order to get a profit of 25%?

SSC GD 11/01/2023 (Shift-01)

- (a) 15 (b) 17
(c) 14 (d) 16

Profit and Loss

43. If a person buys 15 pencils for ₹12, and sells 12 pencils for ₹15, find the gain or loss percentage.

SSC GD 12/01/2023 (Shift-01)

- (a) Profit of 65.25%
(b) Loss of 56.25%
(c) Profit of 56.25%
(d) Loss of 56.52%

TYPE - VI

44. A cloth merchant sold half of his clothes at 30% profit, half of the remaining clothes at 20% loss, and the rest was sold at his cost price. In the total transaction, what is his gain or loss percentage?

DP CONSTABLE 02/12/2023 (Shift-02)

- (a) Loss of 10%
(b) Loss of 12%
(c) Profit of 10%
(d) Profit of 12%

45. A fruit seller sells $\left(\frac{2}{5}\right)$ part of the fruits at a profit of 15%, and remaining at a loss 5%. If the total profit is ₹1,800, then what is the total cost price of the fruits?

DP CONSTABLE 29/11/2023 (Shift-02)

- (a) ₹45,000 (b) ₹50,000
(c) ₹55,000 (d) ₹60,000

46. Rahul has 12 bananas with him. He sells x of them at a profit of 20% and the remaining at a loss of 20%. He gains 10% on the whole outlay. The value of x is:

DP CONSTABLE 29/11/2023 (Shift-01)

- (a) 10 (b) 8
(c) 7 (d) 9

TYPE - VII

47. Komal sold two devices, each for ₹4,982. If she made 6% profit on the first and 6% loss on the second, what is the total cost of both the devices?

DP CONSTABLE 15/11/2023 (Shift-03)

- (a) ₹10,000 (b) ₹11,000
(c) ₹8,000 (d) ₹9,000

48. A person sells two articles for ₹5,000 each with no loss and no profit in the overall transaction. If one is sold at a $16\frac{2}{3}\%$ loss, then the other is sold at a profit of:

DP CONSTABLE 23/11/2023 (Shift-01)

- (a) 24% (b) 15%
(c) 20% (d) 25%

49. A man sold two cupboards for ₹650 each, gaining 30% on one and losing 20% on the other. Had he sold the two cupboards for ₹875 each, his net gain/loss percentage (rounded off to the nearest integer) is:

DP CONSTABLE 30/11/2023 (Shift-02)

- (a) Profit of 35%
(b) Profit of 33%
(c) Loss of 42%
(d) Loss of 36%

50. Both A and B sell their watch at the rate of ₹5000 per watch. A earned a profit of 25 percent while B incurred a loss of 10 percent. What is the ratio of cost prices of A and B?

SSC GD 20/02/2024 (Shift-01)

- (a) 17 : 20 (b) 9 : 10
(c) 18 : 25 (d) 16 : 25

51. Last year Neil bought two watches. This year he sold them for ₹15,000 each. On one, he made a 25% profit and on the other, he had a $x\%$ loss. If his net loss is ₹2000, then find the value of x .

SSC GD 24/02/2024 (Shift-04)

- (a) 25 (b) 80
(c) 50 (d) 40

52. A man sold two chairs for ₹475 each, gaining 25% on one and losing 20% on the other. Had he sold the two chairs for ₹575 each, what would have been his gain/loss percentage (rounded off to the nearest integer)?

SSC GD 10/01/2023 (Shift-03)

- (a) Profit 45% (b) Profit 18%
(c) Profit 41% (d) Loss 25%

53. Ravi sold two bikes for ₹42,188 each. On one bike he gained 20% while on the other he lost 20%. How much per cent does he gain or lose overall?

SSC GD 16/01/2023 (Shift-02)

- (a) Profit 4% (b) Loss 10%
(c) Loss 4% (d) Profit 10%

TYPE - VIII

54. A Shopkeepers sold two items. The selling price of first item equals to the cost price of the second item. He sold the first item at a profit of 20% and the second item at a loss of 10%. What is his overall profit/loss percent?

- (a) Loss, $4\frac{6}{11}\%$
(b) Profit, $3\frac{7}{11}\%$
(c) Profit, $4\frac{6}{11}\%$
(d) Loss, $8\frac{1}{3}\%$

TYPE - IX

55. A vendor bought buttons at 22 for one rupee. How many buttons he sell for a rupee to gain 10%?

DP CONSTABLE 01/12/2023 (Shift-02)

- (a) 19 (b) 16
(c) 20 (d) 18

56. A man sells 10 pens for ₹18 gaining 24%. How many pens should he sell for ₹1,530 to a profit of 55%?

DPHC AWO/TPO 28/10/2022 (Shift-02)

- (a) 680 (b) 540
(c) 620 (d) 760

57. By selling 18 oranges for ₹151.20, a person makes a loss of 20%. How many oranges must he sell for ₹819 to make a profit of 30%?

SSC GD 16/11/2021 (Shift-03)

- (a) 65 (b) 45
(c) 60 (d) 50

58. By selling 40 dozen bananas for ₹1,440, a man gains 20%. In order to gain 30%, for how much should he sell 20 dozen bananas?

SSC GD 17/11/2021 (Shift-03)

- (a) ₹720 (b) ₹1,560
(c) ₹936 (d) ₹780

TYPE - X

59. A dealer sold a sofa set at a profit of 39%. Had he sold it for ₹1565 less, he would have gained 29%. For what value should he sell it in order to gain 27%?

SSC GD 05/03/2024 (Shift-01)

- (a) ₹19,875.5 (b) ₹16,526.4
(c) ₹20,140.5 (d) ₹11,576.4

60. Kunal bought an article and sold it at a loss of 15%. If he had bought it for 18% less and sold it for ₹108 more, then he would have had a profit of 30%. Find the cost price of the article.

SSC GD 23/01/2023 (Shift-02)

- (a) ₹540 (b) ₹560
(c) ₹570 (d) ₹500

61. Vinod buys an article and sells it at a loss of 5%. If he would have bought it for 20% less and sold it for ₹25 more, he would have gained 20%. What was the original cost price?

SSC GD 02/02/2023 (Shift-03)

- (a) ₹2,500 (b) ₹2,250
(c) ₹2,250 (d) ₹1,850

62. A shopkeeper sells an article at 20 profit %. Had he bought it at 20% less than its original cost price and sold it at ₹10 less, he would have made a profit of 25%. Find the cost price of the article.

SSC GD 16/11/2021 (Shift-01)

- (a) ₹60 (b) ₹50
(c) ₹40 (d) ₹45

Profit and Loss

63. When the selling price of an article is increased by ₹164, a loss of 12% turns into a gain of 8.5%. Find the cost price of the article.

SSC GD 16/11/2021 (Shift-03)

- (a) ₹760 (b) ₹840
(c) ₹850 (d) ₹800

TYPE - XI

64. A dealer sells sugar at 20% profit and uses weight 10% less than the actual measure. His gain percentage is:

DP Head Constable 13/10/2022 (Shift-03)

- (a) $33\frac{1}{3}\%$ (b) 30%
(c) $35\frac{1}{3}\%$ (d) 25%

65. A dealer cheats by 15% at purchasing and 10% at selling. What per cent profit does he gain?

DP Head Constable 14/10/2022 (Shift-01)

- (a) Profit of 27.5%
(b) Profit of 26%
(c) Profit of 26.5%
(d) Profit of 25%

66. A shopkeeper professes to sell his goods at the cost price, but he uses false weights with which he cheats by 10% while buying and by 15% while selling. His overall percentage of profit or loss is:

DPHC AWO/TPO 27/10/2022 (Shift-01)

- (a) 22.72% (b) 29.41%
(c) 5% (d) 25%

67. A vegetable seller sells potatoes at ₹22/kg. which he purchased at ₹18/kg. But he gives only 850 grams of potatoes instead of 1 kg. while selling. What is the actual percentage profit earned by the seller?

DP Head Constable 14/10/2022 (Shift-02)

- (a) 30.45% (b) 42.79%
(c) 45.29% (d) 43.79%

68. A shop bought guavas at ₹22 per kg, and sells Anand and Sakshi at ₹25 per kg each. He sold 950 g to Anand instead of 1 kg. He testified by using faulty weights Sold 'X' g instead of 1 kg to Sakshi. Had he sold both he would have actually earned a total profit of ₹7.76, then what is the value of 'X'?

DP Head Constable 13/10/2022 (Shift-02)

- (a) 980 g (b) 970 g
(c) 960 g (d) 985 g

69. A man sells rice at 10 profit % and uses a weight that is 20% less than the actual measure. His gain percentage is:

SSC GD 13/02/2023 (Shift-02)

- (a) $37\frac{2}{3}\%$ (b) $37\frac{1}{2}\%$
(c) $37\frac{1}{5}\%$ (d) $37\frac{1}{3}\%$

70. A shopkeeper sells his old stock at 25 percent loss on cost price, but uses 30 percent less weight. What is his percentage profit or loss (consider up to two decimals)?

SSC GD 13/01/2023 (Shift-04)

- (a) Profit of 9.14%
(b) Loss of 7.14%
(c) Profit of 7.14%
(d) Loss of 9.14%

71. As shopkeeper using a faulty weight while professes to sell the article at cost price and gains a profit of 25%. Find the faulty weight he uses for 1000 g.

SSC GD 11/01/2023 (Shift-04)

- (a) 850 g (b) 750 g
(c) 800 g (d) 975 g

72. S buys sugar for ₹40 per kg and sells at ₹x per kg. Due to a fault in the weighting machine, it shows 1 kg when the actual weight is 800 gm. What is the value of x per kg if his profit percentage is 30%?

SSC GD 16/01/2023 (Shift-01)

- (a) 48.6 (b) 46.1
(c) 41.6 (d) 52.1

73. A silver shop owner claims that he is selling silver at ₹65/g when cost price is ₹70/g, but he is giving 900g instead of 1 kg. The percentage of profit or loss of the shop owner (correct to 2 decimal places) is:

SSC GD 27/01/2023 (Shift-02)

- (a) Profit of 3.17%
(b) Loss of 3.27%
(c) Loss of 3.12%
(d) Profit of 3.07%

74. A faulty machine weights 900 g as 1000 g. A shopkeeper uses this weighting machine to sell 45 kg of rice at ₹65 per kg which he bought at ₹58 per kg. His overall profit percentage is approximately equal to:

SSC GD 05/02/2023 (Shift-03)

- (a) 23.8% (b) 18.9%
(c) 22.6% (d) 24.5%

75. A dishonest shopkeeper sells goods to a customer at a profit of T % over the cost price and also weighs 800g instead of 1kg. His total profit percentage is 40%. What is the value of T?

SSC GD 08/02/2023 (Shift-04)

- (a) 40 (b) 24
(c) 10 (d) 12

76. A shopkeeper claims to sell his articles at ₹40 per kg which costs him ₹50 per kg. But while selling he uses false weight and gives only 640 gm instead of 1 kg. What is his profit percentage?

SSC GD 09/02/2023 (Shift-02)

- (a) 15% (b) 10%
(c) 25% (d) 20%

TYPE - XII

77. A shopkeeper tells his associate to put a selling price tag of ₹152 on an item to earn a 12% profit. By mistake, the associate puts the price tag of ₹125. What is the percentage loss or gain of the shopkeeper with the new selling price tag (rounded off two decimal places)?

DP CONSTABLE 28/11/2023 (Shift-02)

- (a) Loss of 8.77%
(b) Profit of 9.66%
(c) Profit of 6.99%
(d) Loss of 7.89%

78. A merchant buys 'a' number of goods for ₹b and sells 'b' number of goods for ₹a. If $b < a$, then in the whole outlay, how much profit% or loss%.

DP Head Constable 17/10/2022 (Shift-03)

- (a) Profit of $100 \frac{(a^2 - b^2)}{b^2} \%$
(b) Loss of $100 \frac{(a^2 - b^2)}{b^2} \%$
(c) Loss of $100 \frac{(b^2 - a^2)}{b^2} \%$
(d) Profit of $100 \frac{(b^2 - a^2)}{b^2} \%$

79. Shyam sells a notebook for ₹24 with the profit percentage equal to its cost price. How much did the notebook cost to Shyam?

DP CONSTABLE 21/11/2023 (Shift-01)

- (a) ₹24 (b) ₹20
(c) ₹18 (d) ₹16

80. A person sold his book for ₹96 and got a profit percentage equal to the cost price of the book. The cost price of the book is:

DP Head Constable 18/10/2022 (Shift-01)

- (a) ₹60 (b) ₹80
(c) ₹50 (d) ₹70

81. A dealer sells an item for ₹500 by making a profit of 25%. He sells another item at a loss of 10%, and on the whole, makes neither profit nor loss. What did the second item cost him?

DP CONSTABLE 28/11/2023 (Shift-01)

- (a) ₹1,000 (b) ₹800
(c) ₹750 (d) ₹500