



SSC

3rd
edition
ENGLISH
Medium

MATHS

TYPE WISE

6500+ PYQs

S.N.	Exam Name	Year	No. of Ques.
1.	SSC CGL TIER-I	2025, 2024, 2023, 2022, 2021, 2020, 2019, 2018	2147
2.	SSC CGL TIER-II	2025, 2024, 2023, 2022, 2021, 2020, 2019, 2018	885
3.	SSC CHSL TIER-I	2025, 2024, 2023, 2022, 2021, 2020	1903
4.	SSC CHSL TIER-II	2024, 2023, 2022	120
5.	SSC CPO TIER-I	2025, 2024, 2023, 2022, 2020	874
6.	SELECTION POST	2025, 2024, 2023, 2022, 2021 PHASE (XIII, XII, XI, X, IX)	562
7.	SSC MTS TIER-I	2023, 2022, 2021, 2020	250

TOTAL NUMBER OF QUESTIONS

6,741

MASTER SSC MATHS LIKE A TOPPER

Your Ultimate Guide to Using This Book Effectively

Welcome to a power-packed Maths resource designed exclusively for SSC Exams. This book isn't just a collection of past year questions-it's a strategic tool crafted to help you master every concept in a smart, structured and exam-oriented way.

❖ Why This Book is a Game-Changer? ❖

- ✓ Complete Coverage of SSC Exams- Chapter-wise compilation of all questions asked in the last 5 years across SSC CGL, CHSL, CPO, MTS, and more!
- ✓ Type-wise & Level-wise Arrangement- Focus on one concept at a time and progress from basics to advanced effortlessly.
- ✓ Smart & Time-Saving Solutions- Master multiple solving techniques (traditional, shortcut, and conceptual) for every question.
- ✓ Designed for Targeted Practice- Learn a concept in class? Jump straight to practice only that type from this book!

❖ How to Use This Book for Maximum Success? ❖

-  **STEP 1 : Learn the Concept First-**
Before diving into questions, understand the fundamentals from your teacher, notes, or video lectures.
-  **STEP 2 : Targeted Concept Practice-**
Thanks to the type-wise arrangement, you can instantly practice only the relevant question types, reinforcing your learning.
-  **STEP 3 : Level-Up Gradually-**
Move step by step from basic to high-difficulty questions. This systematic progression boosts confidence and accuracy.
-  **STEP 4 : Master Shortcuts & Multiple Methods-**
For every question, compare different solving techniques-pick the fastest one to optimize your speed in exams.
-  **STEP 5 : Revise & Track Your Progress-**
Use the previous year questions (PYQs) as a self-evaluation tool. Reattempt difficult questions and refine your approach.

❖ Pro-Tips to Ace SSC Maths Using This Book ❖

- 🔥 Smart Work > Hard Work - Don't just practice, analyze solutions to find the best method.
- 🔥 Time Yourself - Try to solve questions within exam-time constraints for real-time improvement.
- 🔥 Make Notes of Tricks & Formulas - A quick revision sheet will be your best friend before the exam.
- 🔥 Solve Questions Daily - Even 15-20 quality questions per day can skyrocket your preparation.

Let's Ace SSC Maths Together!

With this book as your trusted guide, be assured of concept clarity, speed, and accuracy-the three pillars of SSC exam success!

◆ Stay Consistent. Stay Focused. Stay Ahead. ◆

🎯 All the Best! Your Success Story Starts Here. 🎯

Reverse Calendar Technique

101 days Self-Preparation module

101	100	99	98	97	96	95	94
93	92	91	90	89	88	87	86
85	84	83	82	81	80	79	78
77	76	75	74	73	72	71	70
69	68	67	66	65	64	63	62
61	60	59	58	57	56	55	54
53	52	51	50	49	48	47	46
45	44	43	42	41	40	39	38
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21	20	19	18	17	16	15	14
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5	4	3	2	1			

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			Solutions	-	636-639	
			Total	94		
29.	Probability		Basic Question	06	640-641	DAY 96-97
		TYPE-I	Based on Coins	10	641-642	
		TYPE-II	Based on Dice	07	642-642	
		TYPE-III	Based on Playing Cards	10	643-644	
		TYPE-IV	Based on Ball/Marbles	13	644-645	
		TYPE-V	Set Theory & Venn Diagram	15	645-646	
		TYPE-VI	Odds	16	646-647	
		TYPE-VII	Binomial Distribution Formula	02	647-648	
		TYPE-VIII	Multiplication Theorem of Probability	03	648-648	
		TYPE-IX	Baye's Theorem	05	648-648	
		TYPE-X	Miscellaneous Questions	37	648-650	
			Answer Key	-	651-651	
			Solutions	-	651-659	
	Total	124				
30.	Data Interpretation	TYPE-I	Bar Graph	16	660-670	DAY 98-101
		TYPE-II	Tabular Chart	11		
		TYPE-III	Pie Chart	15		
		TYPE-IV	Line Graph	08		
			Answer Key	-		
			Solutions	-		
	Total	423				
Grand Total				6741		

01 Chapter

PERCENTAGE

◆ TYPE - I ◆ BASIC QUESTIONS

- What percent of ₹300 is ₹45?
SSC CHSL 27/11/2025 (Shift-01)
(a) 10% (b) 15%
(c) 20% (d) 25%
- If 60% of a number is 48, what is the number?
SSC CHSL 26/11/2025 (Shift-03)
(a) 70 (b) 75
(c) 80 (d) 85
- Which of the following is the least?
SSC CHSL 13/11/2025 (Shift-03)
(a) 18% of 450 (b) 20% of 380
(c) 25% of 300 (d) 30% of 240
- If 10% of 24% of x is 240, then $x = ?$
SSC CHSL 11/07/2024 (Shift-04)
(a) 10000 (b) 100
(c) 1000 (d) 100000
- If 45% of 50% of a number is 27, then what is the number?
SSC Phase XII 26/06/2024 (Shift-02)
(a) 160 (b) 180
(c) 150 (d) 120
- By how much is 60% of 75 greater than $\frac{1}{5}$ of 25?
SSC CGL TIER-II (18/01/2025)
(a) 37 (b) 38
(c) 40 (d) 34
- What is the ratio between S and T if S is 75% of T?
SSC CPO 28/06/2024 (Shift-03)
(a) 4 : 3 (b) 2 : 3
(c) 75 : 1 (d) 3 : 4
- If 18 toys out of 75 toys are for boys and the rest are for girls, what is the percentage of girls toys?
SSC CHSL 01/07/2024 (Shift-02)
(a) 18% (b) 67%
(c) 57% (d) 76%
- In a class, the numbers of boys and girls are in the ratio of 3 : 5. What is the percentage of boys in the class?
SSC CPO 27/06/2024 (Shift-02)
(a) 37.5% (b) 60%
(c) 42.5% (d) 12.5%
- The cost price of an item increased from ₹2,500 to ₹3,000. Find the increase percentage.
SSC CHSL 01/07/2024 (Shift-03)
(a) 15%
(b) 20%
(c) 30%
(d) 25%
- A price drops from ₹200 to ₹150. What is the percentage decrease?
SSC CHSL 20/11/2025 (Shift-02)
(a) 20% (b) 25%
(c) 30% (d) 35%
- Mahesh's annual salary increased from ₹2,00,000 to ₹2,40,000. Find the percentage increase in the salary.
SSC CHSL 02/07/2024 (Shift-01)
(a) 22% (b) 20%
(c) 24% (d) 18%
- Shantanu's income decreased from ₹42,800 to ₹37,236. Find the percentage decrease in his income.
SSC CHSL 04/07/2024 (Shift-01)
(a) 13% (b) 14%
(c) 11% (d) 12%
- The population of a village increased from 20,000 to 23,000 in a year. What is the percentage increase?
SSC CPO 12/12/2025 (Shift-02)
(a) 13% (b) 12%
(c) 10% (d) 15%
- Last year, Ranjan's monthly salary was ₹34,500 and this year his monthly salary is ₹38,640. What is the percentage increase in Ranjan's monthly salary this year over his monthly salary last year?
SSC CHSL 04/07/2024 (Shift-02)
(a) 15% (b) 13%
(c) 12% (d) 20%
- Shiya invests ₹1,53,000, which is 30% of her annual income, in mutual funds. What is her monthly income (in ₹)?
SSC CPO 28/06/2024 (Shift-02)
(a) 52300 (b) 45800
(c) 55600 (d) 42500
- An interval of 2 hours 25 minutes is wrongly estimated by 2 hours 30.5 minutes. The error percentage is:
SSC CHSL 08/07/2024 (Shift-01)
(a) $2\frac{21}{29}\%$ (b) $3\frac{19}{29}\%$
(c) $3\frac{23}{29}\%$ (d) $2\frac{27}{29}\%$
- The population of a city was 500000 in 2020. The population grows 7.5% annually. The population in 2022 is
SSC CHSL 01/07/2024 (Shift-04)
(a) 5778125 (b) 5875215
(c) 5558875 (d) 5887125
- After an increase of 9% in salary, a person received ₹6,300. What was his salary before the increase (consider integer part only)?
SSC CHSL 10/07/2024 (Shift-02)
(a) ₹5,000 (b) ₹5,779
(c) ₹3,879 (d) ₹4,000
- R gives $\frac{3}{8}$ of the toffees he has to S. If now R has $k\%$ of the toffees with S, then find the value of k .
SSC CHSL 05/07/2024 (Shift-03)
(a) $\frac{200}{3}$ (b) $\frac{500}{3}$
(c) 140 (d) 200
- If 30% of Ravi's income is equal to 40% of Suresh's income, then 50% of Ravi's income is equal to what percentage of Suresh's income?
SSC CPO 05/10/2023 (Shift-03)
(a) $66\frac{2}{3}\%$ (b) $33\frac{2}{3}\%$
(c) $66\frac{1}{3}\%$ (d) $33\frac{1}{3}\%$
- A number increased by 20% gives 240. Find the number.
SSC CHSL 11/07/2024 (Shift-01)
(a) 200 (b) 280
(c) 240 (d) 250
- When a number is increased by 8, it becomes 120% of itself. The number is:
SSC CHSL 02/07/2024 (Shift-02)
(a) 30 (b) 60
(c) 40 (d) 50
- When 12 is subtracted from a number, it reduces to its 40%. Two-fifth of that number is:
SSC CHSL 10/07/2024 (Shift-02)
(a) 20 (b) 12
(c) 8 (d) 50
- If 70 is subtracted from 70% of a number, the remainder is 70. What is the number?
SSC Phase XII 24/06/2024 (Shift-02)
(a) 400 (b) 100
(c) 300 (d) 200
- Two numbers are respectively 20% less and 30% more than a third number. What is the ratio of the two numbers?
SSC CHSL 13/11/2025 (Shift-02)
(a) 8 : 13 (b) 2 : 3
(c) 4 : 5 (d) 7 : 9
- Two numbers are respectively 61% and 35% less than a third number. The first number is what percentage of the second number?
SSC CHSL 10/07/2024 (Shift-04)
(a) 60% (b) 24%
(c) 48% (d) 30%

Chapter - 1 : Percentage

28. In an engineering college, there are four branches namely Computer Science (CS), Electronics (EC), Civil (CE), and Mechanical (ME). The respective ratio of the number of students in these branches is 11 : 5 : 6 : 7. What is the percentage of students belonging to CS and ME branches in the college (correct up to two decimal places)?
SSC CHSL 03/07/2024 (Shift-04)
 (a) 61.07% (b) 62.07%
 (c) 62.37% (d) 61.37%
29. What is the number which needs to be added to 20% of 460 to have the sum as 70% of 920?
SSC CHSL 02/07/2024 (Shift-03)
 (a) 335 (b) 762
 (c) 926 (d) 552
30. If the income of P is 40% less than Q, then the combined income of P and Q is how much per cent more than the income of P?
SSC CHSL 03/07/2024 (Shift-03)
 (a) $166\frac{2}{3}\%$ (b) $164\frac{1}{3}\%$
 (c) $166\frac{1}{3}\%$ (d) $164\frac{2}{3}\%$
31. $62\frac{1}{2}\%$ of a number exceeds 25% of the same number by 15. What is the number?
SSC PHASE XIII 31/07/2025 (Shift-03)
 (a) 40 (b) 50
 (c) 60 (d) 70
32. A man multiplied a number by $\frac{8}{5}$ instead of $\frac{5}{8}$. What is the percentage error in the calculation?
SSC MTS 13/06/2023 (Shift-02)
 (a) 124% (b) 162%
 (c) 156% (d) 100%
33. A quantity $\frac{4}{5}$ is changed to $\frac{5}{6}$. How much percentage change is given to the quantity?
SSC CHSL 05/07/2024 (Shift-03)
 (a) 4.73% (b) 4.71%
 (c) 4.17% (d) 4.37%
34. A pupil multiplied a figure by $\frac{3}{5}$ rather than $\frac{5}{3}$. What is the percentage error in the calculation?
SSC CHSL 24/05/2022 (Shift-01)
 (a) 64% (b) 47%
 (c) 58% (d) 52%
35. By mistake, the reciprocal of a positive fraction got typed in place of itself, and thereby its value got reduced by $175\frac{1}{4}\%$. What was the value of the fraction?
SSC CGL 24/08/2021 (Shift-03)
 (a) $\frac{1}{2}$ (b) $\frac{4}{3}$
 (c) $\frac{3}{4}$ (d) $\frac{1}{4}$
36. A fraction $\frac{3}{5}$ is decreased by $\frac{2}{5}$. The resulting fraction is then increased by 20%. What is the percentage decrease/increase in the value of the original fraction?
SSC CHSL 03/07/2024 (Shift-02)
 (a) Increase 60%
 (b) Decrease 50%
 (c) Increase 50%
 (d) Decrease 60%
37. In a sweet, one-third is sugar. If the price of sugar now is $\frac{7}{6}$ of the previous price, what is the effective percentage increase in the cost of the sweet?
SSC CPO 29/06/2024 (Shift-03)
 (a) $\frac{100}{9}\%$ (b) $\frac{100}{5}\%$
 (c) $\frac{100}{18}\%$ (d) $\frac{100}{3}\%$
38. Ramesh spent ₹30,000 on Diwali shopping and ₹45,000 on buying a TV set, and the remaining 40% of the total amount he had as cash with him. What was the total amount (in ₹)?
SSC CPO 29/06/2024 (Shift-03)
 (a) 1,22,000 (b) 1,25,000
 (c) 1,35,000 (d) 1,10,000
39. If the numerator of a fraction is increased by 12% and denominator is reduced by 8%. It gives a new fraction $\frac{16}{17}$. What is the original fraction?
SSC Phase-XI 27/06/2023 (Shift-03)
 (a) $\frac{92}{119}$ (b) $\frac{23}{28}$
 (c) $\frac{28}{23}$ (d) $\frac{119}{92}$
40. If the numerator of a fraction is increased by 140% and the denominator of the fraction is decreased by 20%, the resultant fraction is $\frac{12}{7}$. Find the original fraction.
SSC CHSL 17/03/2023 (Shift-02)
 (a) $\frac{4}{9}$ (b) $\frac{4}{7}$
 (c) $\frac{7}{6}$ (d) $\frac{8}{9}$
41. If the Numerator of a fraction be increased by 50% and its denominator be diminished by 28%, the value of the fraction is $\frac{25}{36}$. Find the original fraction.
SSC CHSL 24/05/2022 (Shift-03)
 (a) $\frac{1}{5}$ (b) $\frac{2}{3}$
 (c) $\frac{2}{5}$ (d) $\frac{1}{3}$
42. If the numerator of a fraction is increased by 60% and the denominator is increased by 40%, then the resultant fraction is $\frac{16}{63}$. The original fraction is:
SSC CPO 25/11/2020 (Shift-02)
 (a) $\frac{2}{9}$ (b) $\frac{5}{9}$
 (c) $\frac{2}{11}$ (d) $\frac{4}{9}$

◆ TYPE - II ◆ AB RULE

43. If the price of a product increases by 25%, by what percent should the consumption be reduced to keep the expenditure same?
SSC CHSL 28/11/2025 (Shift-01)
 (a) 10% (b) 15%
 (c) 21% (d) 20%
44. The price of pulses has increased by 45%. By what percentage (rounded off to the nearest integer) the increased price of the pulses should be reduced so that the price of the pulses remains unaltered?
SSC CHSL 04/07/2024 (Shift-03)
 (a) 35 (b) 41
 (c) 31 (d) 45
45. A population falls by 12% in the first year. By what percentage must it increase in the second year so that at the end of the second year the population is exactly the same as the original?
SSC CHSL 18/11/2025 (Shift-02)
 (a) 10.6% (b) 11.6%
 (c) 13.6% (d) 14.6%
46. The salary of employees in a factory was reduced by 20% due to economic crisis. In order to have their salary back to original amount, it must be raised by:
SSC CHSL 11/07/2024 (Shift-04)
 (a) 25% (b) 20%
 (c) 40% (d) 12.5%
47. If Ramu's salary is 30% less than Somu's salary, then by how much percent is Somu's salary more than Ramu's salary?
SSC CHSL 09/07/2024 (Shift-02)
 (a) 45.47% (b) 42.86%
 (c) 42.67% (d) 34.56%
48. Shyam's income is 20% less than Ram's. How much is Ram's income more than Shyam's in percentage terms?
SSC CHSL 11/07/2024 (Shift-02)
 (a) 25% (b) 20%
 (c) 80% (d) 30%
49. If A's income is 20% more than B's and B earns ₹50,000, what percent less is B's income than A's?
SSC CHSL 24/11/2025 (Shift-1)
 (a) 16.66% (b) 20%
 (c) 18% (d) 25%