



Simplification Questions for SSC CGL - Practice Set of 10 Questions

Mastering the Quantitative Aptitude section of the SSC CGL exam can be daunting, but with consistent practice and the right guidance, you can achieve success. In this blog, we've carefully selected 10 Simplification Questions for SSC CGL to help you improve your problem-solving skills. Each question is accompanied by an answer key and detailed solutions to ensure you understand the underlying concepts and techniques. You'll also find book recommendations and expert advice to further enhance your preparation.

By working through these questions, you'll become more familiar with the Simplification and Approximation problems typically seen in the SSC CGL exam, gaining deeper insight into the exam pattern. At Dhronas, we stress the importance of building a strong foundation, and these questions will help you do just that. Whether you're preparing for the exam for the first time or aiming to improve your score, this resource will be an essential part of your study plan, helping you track progress and optimize your strategy.

Simplification Questions for SSC CGL

We've assembled 10 crucial Simplification questions for SSC CGL to give you a chance to practice and sharpen your skills. Going through these key questions will deepen your understanding and better equip you for the exam. Best of luck!

Question:1 Find the value of $\frac{6.4 \times 0.08 \times 0.125}{0.64 + 0.4 + 0.25}$.

1. 3
2. 0.3
3. 30
4. 0.03

Question:2 Find the value of $57 \frac{14}{147} + \frac{152}{178} - 1142 \times 203 \div 141 + \frac{14}{359}$.

1. -2458.25
2. -1123.2
3. 1542.2
4. -1585.4



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Question:3 Evaluate:

$$[\{ 34/25 + 6.8/2 \} - \{ (7 \div 1/2) \times (17 \div 1/2) \}] - (13/4 \div 65/80) \times 0.01$$

1. 1.732
2. 9.443
3. - 4.7524
4. 47

Question:4 What will be the value of $12\frac{2}{3} + 15\frac{7}{9} + 11\frac{5}{8} - \frac{27}{4}$?

1. 27.86
2. 29.45
3. 34.56
4. 33.32

Question:5 Simplify

1. $3p - q$
2. $p+2q$
3. $3p+2q$
4. $2p + 2q$



Question:6 The value of $(\frac{11}{2} \div 2\frac{6}{7} \text{ of } \frac{53}{5}) \times (6\frac{2}{5} \div 4\frac{1}{2} \text{ of } \frac{51}{3}) \div (\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9} \text{ of } \frac{11}{5}) = k$, where k lies between:

1. 0.007 and 0.008
2. 0.7 and 0.8
3. 0.0007 and 0.0008
4. 0.07 and 0.08

Question:7 Simplify -

$$42\% \text{ of } 568 + 58\% \text{ of } 360 - 20\% \text{ of } x = 270$$

1. 886.8
2. 852.7
3. 863.5
4. 890.7



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Question:8 What will come in the place of question mark '?'

$$48 \times 2\frac{5}{8} + 7 \div 8 - \frac{3}{8} = ?$$

1. $128\frac{7}{8}$
2. $126\frac{1}{2}$
3. $126\frac{5}{8}$
4. $128\frac{3}{8}$

Question:9 If $5^x = 3125$, then find the value of $3^x - 1$.

1. 240
2. 241
3. 242
4. 243

Question:10 Directions: Solve the given expression.

$$325 + 276 \div [150 - \{9 \times 9 + (83 - 4 \times 15)\}]$$

1. 332
2. 333
3. 334
4. 331

Question:1 Find the value of $\frac{6.4 \times 0.08 \times 0.125}{0.64 + 0.4 + 0.25}$.

1. 3
2. 0.3
3. 30
4. 0.03

Simplification Questions for SSC CGL - Answer Key

Before jumping on to the detailed solutions, please check out your score in this test. And drop your honest scores in the comment section below:

1. (2)	6. (1)
2. (4)	7. (1)
3. (3)	8. (2)
4. (4)	9. (3)
5. (4)	10. (4)

Now, let us provide you with detailed solutions to these Simplification Questions for SSC CGL in the upcoming segment.

Simplification Questions for SSC CGL - Solution Bank

Question:1 The correct answer is **option 2** i.e. **0.3**.

Formula: $(a^3 - b^3)/(a^2 + ab + b^2) = a - b$

Given: $\frac{6.4 \times 0.08 \times 0.125}{0.64 + 0.4 + 0.25}$

It can be rewritten as:

$$\{(0.8)^3 - (0.5)^3\} / \{(0.8)^2 + 0.8 \times 0.5 + (0.5)^2\}$$

Using the formula we get: $0.8 - 0.5 = 0.3$

Question:2 The correct answer is **option 4** i.e. **-1585.4**.

We have to find the value of $57 \frac{14}{147} + \frac{152}{178} - 1142 \times 203 \div 141 + \frac{14}{359}$.

By using the BODMAS rule:

$$57 \frac{14}{147} + \frac{152}{178} - 1142 \times 203 \div 141 + \frac{14}{359}$$

$$= \frac{8393}{147} + \frac{152}{178} - 1142 \times 1.44 + \frac{14}{359}$$

$$= \frac{8393}{147} + \frac{152}{178} - 1644.48 + \frac{14}{359}$$

$$= 59.08 - 1644.48$$

$$= -1585.4$$

Question:3 The correct answer is **option 3** i.e. **-4.7524**

Understanding	Fair Calculation
BODMAS order to use: [] - (i) { } - (ii) () - (iii) Then, ÷, ×, + and - Split and solve (i) { 34/25 + 6.8/2 } (ii) { (7 ÷ 1/2) × (17 ÷ 1/2) } (iii) (13/4 ÷ 65/80)	(i) { 34/25 + 6.8/2 } = 476/100 (ii) { (7 ÷ 1/2) × (17 ÷ 1/2) } = 476 (iii) (13/4 ÷ 65/80) = 4 Now, [(i) - (ii) - (iii)] 0.01 [(476/100) - (476) - (4)] 0.01 [(476/100) - (480)] 0.01 [- (47524/100)] 0.01 = - 4.7524

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Question:4 The correct answer is **Option 4** i.e. **33.32**.

$$\begin{aligned}
 &12\frac{2}{3} + 15\frac{7}{9} + 11\frac{5}{8} - \frac{27}{4} \\
 &= \frac{38}{3} + \frac{142}{9} + \frac{93}{8} - \frac{27}{4} \\
 &= (912 + 1136 + 837 - 486)/72 \\
 &= 2399/72 \\
 &= 33.32
 \end{aligned}$$

Question:5 The correct answer is option 4 i.e. $2p + 2q$.

$$3p - [3p - \overline{p + q} - \{3p - (p - \overline{q - p})\}]$$

Given ,

$$\begin{aligned}
 &= 3p - [3p - p - q - \{3p - (p - q + p)\}] \\
 &= 3p - [3p - p - q - \{3p - (2p - q)\}] \\
 &= 3p - [3p - p - q - \{3p - 2p + q\}] \\
 &= 3p - [3p - p - q - \{p + q\}] \\
 &= 3p - [3p - p - q - p - q] \\
 &= 3p - [p - 2q] \\
 &= 2p + 2q
 \end{aligned}$$

Question:6 The correct answer is **option 1** i.e. **0.007 and 0.008**

$$\begin{aligned}
 &\Rightarrow (1\frac{1}{2} \div 2\frac{6}{7} \text{ of } \frac{53}{5}) \times (6\frac{2}{5} \div 4\frac{1}{2} \text{ of } \frac{51}{3}) \div (\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9} \text{ of } \frac{11}{5}) = k \\
 &\Rightarrow (\frac{4}{3} \div \frac{20}{7} \text{ of } \frac{28}{5}) \times (\frac{32}{5} \div \frac{9}{2} \text{ of } \frac{16}{3}) \div (\frac{3}{4} \times \frac{8}{3} \div \frac{5}{9} \text{ of } \frac{6}{5}) = k \\
 &\Rightarrow (1/12) \times (4/15) \div (3) = \mathbf{0.0074}
 \end{aligned}$$

Question:7 The correct answer is **Option 1** i.e. **886.8**.

$$\begin{aligned}
 &42\% \text{ of } 568 + 58\% \text{ of } 360 - 20\% \text{ of } x = 270 \\
 &\Rightarrow 42(568)/100 + 58(360)/100 - 20(x)/100 = 270 \\
 &\Rightarrow 238.56 + 208.80 - x/5 = 270 \\
 &\Rightarrow 270 + x/5 = 447.36 \\
 &\Rightarrow x/5 = 447.36 - 270 \\
 &\Rightarrow x = 177.36(5) \\
 &\Rightarrow x = 886.8
 \end{aligned}$$



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Question: 8 The correct answer is **option 2** i.e. $126\frac{1}{2}$.

$$\begin{aligned}48 \times 2\frac{5}{8} + 7 \div 8 - \frac{3}{8} &=? \\ \Rightarrow 48 \times 2\frac{5}{8} + 7 \div 8 - \frac{3}{8} &=? \\ \Rightarrow 6 \times 21 + \frac{7}{8} - \frac{3}{8} &=? \\ \Rightarrow 126 + \frac{4}{8} & \\ \Rightarrow 126\frac{1}{2} &\end{aligned}$$

Question:9 The correct answer is **option 3** i.e. **242**.

Given:

$$5^x = 3125$$

Calculations:

$$\Rightarrow 5^x = 5^5$$

Comparing both sides;

$$\Rightarrow x = 5$$

Now the value of $3^x - 1 = 3^5 - 1$

$$\Rightarrow 243 - 1 = 242$$

Question:10 The correct answer is **Option 4** i.e. **331**.

$$325 + 276 \div [150 - \{9 \times 9 + (83 - 4 \times 15)\}]$$

$$325 + 276 \div [150 - \{9 \times 9 + (83 - 60)\}]$$

$$325 + 276 \div [150 - \{9 \times 9 + (23)\}]$$

$$325 + 276 \div [150 - \{81 + 23\}]$$

$$325 + 276 \div [150 - 104]$$

$$325 + 276 \div [46]$$

$$325 + 6 = 331$$

Tips to Prepare for SSC CGL Maths Section

Looking to improve your numerical skills for the SSC CGL exam? Get ready to dive into some valuable tips, tricks, and strategies to boost your preparation!

- Ensure you cover the entire syllabus, leaving no topic untouched.
- Take practice tests frequently to track your progress.
- Focus on strengthening your weak areas by incorporating them into your study plan.
- Solve

mock tests

and review previous years' question papers to familiarize yourself with the exam format.

- Implement time management strategies to cover all topics efficiently.
- Stick to a consistent daily study routine with dedicated effort.
- Regularly revise each topic to solidify your understanding.



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In summary, mastering basic calculation tricks can greatly improve your performance in the SSC CGL exam. The questions shared in this blog are just a small part of the comprehensive strategies found in "

Quant Sir

"by Raja Bhattacharjee. This book is packed with additional tips, practice questions, and expert guidance to further enhance your skills and boost your confidence. If you're aiming to excel in your quantitative aptitude, "*Quant Sir*" is an essential resource, offering clear explanations and effective techniques. You can even

[sample](#)

the book by clicking the embedded link. Explore it to elevate your SSC CGL preparation to the next level!

