Preparing for the Quantitative Aptitude section of the SSC CGL exam can be challenging, but with the right practice and guidance, you can master it. In this blog, we've compiled 10 carefully selected SSC CGL Quant questions to help you strengthen your problem-solving skills. Along with the answer key, each question has detailed solutions to help you understand the concepts and techniques involved. We also provide book suggestions for further study and expert preparation tips to enhance your strategy.

By working through these questions, you'll gain valuable exposure to the types of questions appearing in the SSC CGL exam and deepen your understanding of its nuances. At Dhronas, we believe that building a strong foundation with these questions is crucial to your success. Whether you're a first-time CGL aspirant or aiming to improve your score, this resource is an invaluable addition to your study toolkit. Use it to practice, monitor your progress, and sharpen your exam strategy.
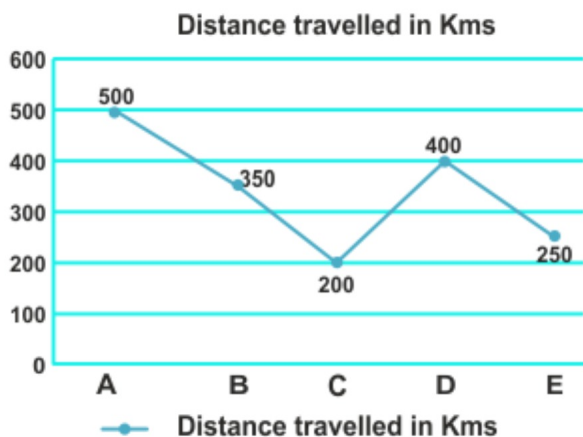
SSC CGL Quant Questions - Practice Mantra

We've compiled 10 key questions from the Quantitative Aptitude section of the SSC CGL exam for you to solve. Practicing these important math questions will help boost your knowledge and sharpen your skills for the exam. Best of luck!

Question:1 A bag contains 8 Red and 6 green balls. 4 balls are picked up one after another without replacement. Find the probability of getting balls of alternate colors.

1. 10/143
2. 20/143
3. 30/143
4. 40/143
5. None of these

Question:2 Directions: The following line graph shows the different distances traveled by 5 persons i.e. A, B, C, D, and E.

Distance travelled in Kms

If A traveled 200 km on a bike and traveled the rest of the journey by car. If the speed of the car was 60 km/h then, find the time taken by him to travel the rest of the journey by car.

1. 8 hrs
2. 5 hrs
3. 6 hrs
4. 12 hrs
5. 10 hrs

Question:3 There is a rectangular carton box for packing gifts, the base of the box is square in shape, the height is 24 cm and the volume of the box is 3456 cm3. It was later realized that larger boxes were not needed, so they cut the height of the box to cubical size and reduced its volume to 1728 cm3. Find the height of the new box.

1. 20 cm
2. 18 cm
3. 15 cm
4. 12 cm

Question:4 The side of an equilateral triangle is equal to the diagonal of a rectangle whose sides are 9 cm and 12 cm. Find the area (in cm2) of the equilateral triangle.

1. 109.1
2. 97.3
3. 97.42
4. 89.25

Question:5 What is the value of $\tan 23° \cot 67° - \sin^2 41° - 1/ (\sin^2 67°) + 2 \tan 41° \tan 49°$?

1. 1
2. 0
3. -cos2 41°
4. cos2 41°

Question:6 A person borrows Rs.10000 for 2 years at 5% p.a. simple interest. He immediately lends it to another person at 8% per annum for 2 years. Find his gain in the transaction per year.

1. Rs. 300
2. Rs. 660
3. Rs. 620
4. Rs. 650

Question:7 The ratio of the efficiency of pipe A to pipe B is 4 : 3 and the efficiency of pipe C is 33.33% of the efficiency of pipe B. If pipe C can fill half of the tank in 42 minutes, then find the time taken by pipes A, B and C together to fill the tank.

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1. 13.5 minutes
2. 10.5 minutes
3. 9.5 minutes
4. 17.5 minutes

Question:8 A man can do same work in 2 days as 5 women do in 1 day together. While a man can do same amount of work as 4 children in 1 day. If a man takes 24 days to complete given work. In how many days will 1 woman, 1 man and 1 children finish the same work.

1. 14.54
2. 13.64
3. 15.24
4. 14.96

Question:9 A man covers a distance of 5874 km in different ways. He covers one-third of the total distance by car at a speed of 92 km per hour. He covers 35% of the remaining distance by train at the speed of 97.9 kmph. At what speed should he cover the remaining distance by Aeroplane so that his average speed is 132 km per hour? (approximate)

1. 256 km/h
2. 246 km/h
3. 276 km/h
4. 286 km/h

Question:10 Find the ratio between the time taken by a boat to travel a distance of X km upstream and same distance downstream. If the ratio of the speed of the boat and speed of the stream is 5 : 4.

1. 5 : 4
2. 1 : 9
3. 9 : 1
4. 6 : 4

SSC CGL Quant Questions - 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. (2)	7. (2)
3. (4)	8. (1)
4. (3)	9. (3)
5. (4)	10. (3)

Now, let us provide you with detailed solutions to these SSC CGL Quant questions in the upcoming segment.

SSC CGL Quant Questions - Solution Mantra

In this section, we've provided detailed solutions to the SSC CGL Quant questions provided above, aimed at equipping you with the knowledge and confidence needed for success. By going through these solutions, you'll not only gain insights into the types of questions featured in the SSC CGL exam but also understand the level of difficulty you can anticipate.

Question:1 The correct answer is **option 2** i.e. **20/143**.
Since the balls to be picked are of different colors without replacement, there are 2 possibilities
Red, Green, Red, Green, or Green, Red, Green, Red
Probability = The number of favourable outcomes/The total number of outcomes
Hence probability = [(8/14) × (6/13) × (7/12) × (5/11)] + [(6/14) × (8/13) × (5/12) × (7/11)] = 20/143

Question:2 The correct answer is **Option 2** i.e. **5 hrs**.
Total distance travelled by A = 500 km
Distance travelled by bike = 200 km
Distance travelled by car = 500 - 200 = 300 km
Speed of the car = 60 km/h
Time taken to travel by car = 300/60 = 5 hrs

Question:3 The correct answer is **Option 4** i.e. **12 cm**.
The volume of the cuboid = length × breadth × height
Volume of the rectangular cuboid = 3456 cm3
Height of the rectangular cuboid = 24 cm
The volume of new cubical box = 1728 cm3
New height = h
The base area of the box is square
So,
Let, l = b = x and, H = 24 cm
$\Rightarrow$ l × b = x2 = 3456/24 = 144 cm2
$\Rightarrow$ l = b = x = 12 cm
The volume of the new box is
$\Rightarrow$ 1728 cm3 = 12 × 12 × h
$\Rightarrow$ h = 12 cm

Question:4 The correct answer is **option 3** i.e. 97.42 cm^2.
Let 'a' be the length of the side of the triangle
Diagonal of a rectangle = $\sqrt{(l^2 + b^2)}$
⇒ $\sqrt{(9^2 + 12^2)}$
⇒ 15 cm
Area of the equilateral triangle = $(\sqrt{3}/4) \times a^2$
⇒ $(\sqrt{3}/4)(15)^2$
⇒ $225\sqrt{3}/4 = 56.25\sqrt{3}$ [$\sqrt{3} = 1.732$]
⇒ 56.25 × 1.732 = 97.42 cm2

Question:5 The correct answer is **option 4** i.e. **cos^2 41°**.
cot 67° = cot (90° - 23°) = tan 23°
sin 67° = sin (90° - 23°) = cos 23°
tan 49° = tan (90 − 41) = cot 41°
∴ tan 23° cot 67° - sin2 41° - 1/(sin^2 67°) + 2 tan 41° tan 49°
⇒ tan^2 23° - sin^2 41° - 1/(cos^2 23°) + 2 tan 41° cot 41°
[tan x cot x = 1 and 1/cos x = sec x]
⇒ tan^2 23° - sin^2 41° - sec^2 23° + 2
⇒ 1 + tan^2 23° + 1 − sin^2 41° - sec^2 23°
⇒ sec^2 23° + cos^2 41° - sec^2 23° [∵ sec^2 x = 1 + tan^2 x and 1 − sin^2 x = cos^{2}x]
⇒ cos2 41°

Q:6 The correct answer is **option 1** i.e. **Rs. 300**.
The simple interest formula is given by:
Simple Interest = PRT/100
For the first part of the transaction,
Interest = (1000*5*2)/100 = Rs. 1000
So, after 2 years, the person will have to pay back Rs. 10000 + Rs.1000 = Rs. 11000
For the second part of the transaction,
Interest   =(1000*8*2)/100= Rs. 1600
So, after 2 years, the person will receive Rs. 10000 + Rs. 1600 = Rs. 11600
Gain per year = (11600 - 11000)/2 = 600/2 = Rs 300

Question:7 The correct answer is **Option 2** i.e. **10.5 minutes**.
Pipe C can fill the tank = 42 × 2 = 84 minutes
Pipe B can fill the tank = 84 × 33.33/100 = 84 × 1/3 = 28 minutes
Pipe A can fill the tank = 28 × 3/4 = 21 minutes
Required time = 1/21 + 1/28 + 1/84 = (4 + 3 + 1)/84 = 8/84 = 10.5 minutes

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Best Maths Book for SSC CGL 2024 - Quant Sir

"Quant Sir" by Raja Bhattacharjee is an essential guide for mastering quantitative aptitude for SSC CGL Tier 1. It offers chapter-wise coverage, time-saving shortcuts, past exam questions, and expert advice on which questions to skip, along with detailed weightage analysis. With over 4,000 questions organized by difficulty- easy, moderate, and hard - the book is specifically crafted to elevate your preparation and boost your performance.

- **Comprehensive and Unique Content:** *"Quant Sir"* provides a complete approach to confidently tackle every aspect of the SSC CGL Tier I exam.
- **8 Layers of Coverage:** The book is organized into 8 structured layers, ensuring thorough coverage of each topic.
- **Chapter-Specific Questions:** Strengthen your understanding with chapter-specific questions that emphasize key concepts.
- **Previous Year's Questions:** Includes solved questions from the past 5 years to familiarize you with the types of questions commonly asked.
- **Difficulty-Based Practice:** With over 4,000 questions categorized by difficulty level, you can practice according to your current proficiency.
- **New Question Types and Skipping Strategies:** Features new question types and offers expert advice on which questions to skip, helping you focus on the most important areas.

You can also download a sample of "

Quant Sir

" by clicking on the embedded link. This sample will give you a glimpse of the book's content and help you assess whether the author's approach fits your learning style.

Tips to Prepare for SSC CGL Quant Section

Are you eager to enhance your numerical skills for the SSC CGL exam? Prepare to explore a range of tips, tricks, and strategies to elevate your preparation!

- Thoroughly cover the entire syllabus, ensuring no topic is left out.
- Regularly take practice tests to monitor your progress effectively.
- Identify weak areas and focus on them in your study plan.
- Solve

mock tests

and previous years' question papers to become familiar with the exam pattern.
- Apply effective time management techniques to cover all topics comprehensively.
- Maintain a consistent daily study routine with dedicated effort.
- Schedule regular revision sessions after each topic to reinforce your understanding.

In summary, recognizing Quant's significance for SSC CGL, regular practice, and correct resources are vital. We hope our blog has offered valuable insights. Stay updated with the latest SSC CGL Exam news by visiting our page,