



Important Quant Questions for SSC CGL - Practice Set of 10 Question

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 Important Quant Questions for SSC CGL 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.





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Question:1 If $a + 1/a = 7$, then $a^5 + 1/a^5$ is equal to:

1. 15127
2. 13127
3. 14527
4. 11512

Question:2 A vessel is filled with 484L of liquor. If 36 liters of liquor is taken out and the same amount of water is added in its place and then 22 liters of mixture is taken out and the same amount of water is added in its place and again 16 liters of the mixture is taken out and then The the same amount of water is added to the mixture and then 32 liters of the mixture is taken out and replaced by the same amount of water. What will be the amount of water in the mixture at the end of the fourth process?

1. 197.88 liters
2. 77.86 liters
3. 87.82 liters
4. 97.84 liters

Question:3 Find the fourth proportional to $15ax^3$, $21a^3x^2$, $5x^2a^2$,

1. $7x^3a^2$
2. $4x^2a^2$
3. $7x^2a^3$
4. $7xa^4$

Question:4 What's the difference between the selling price and the marked price of a product if the marked price is Rs. 420 and the discount percentage is 14%?

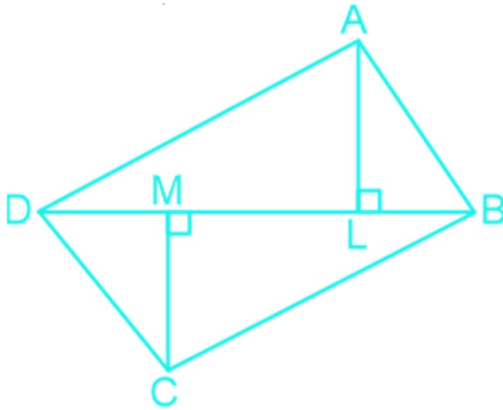
1. Rs. 58.8
2. Rs. 61.2
3. Rs. 48.8
4. Rs. 59.8

Question:5 Find the salary of the 9 employees of the company whose salary is Rs 245145, Rs 185475, Rs 162354, Rs 257116, Rs 176458, Rs 163258, Rs 145258, Rs 125487, and Rs 135698.

1. 177361
2. 177379
3. 187361
4. 177541

Question:6 Vedant's salary decreased by 60% and then increased by 60%. Find the overall percentage reduction of Vedant's salary.

1. 64%
2. 36%



1. 15 cm^2
2. 10 cm^2
3. 5 cm^2
4. 18 cm^2

Question:9 ABCD is a cyclic quadrilateral. The length of AB = 15.2 cm, BC = x cm, CD = 22.8 cm, DA = 15 cm. If AC bisects BD then, find the length of the BC.

1. 15.2 cm
2. 22.5 cm
3. 15 cm
4. 18.5 cm

Question:10 How many of the following numbers is divisible by 132?

660, 754, 924, 1452, 1526, 1980, 2045, and 2170

1. 3
2. 6
3. 5
4. 4

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

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

Important Quant Questions for SSC CGL - Solution Mantra

In this section, we've provided detailed solutions to the Important Quant questions for SSC CGL 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 1** i.e. **15127**.

$$a + 1/a = 7$$

squaring both sides

$$(a + 1/a)^2 = 49$$

$$a^2 + 1/a^2 + 2 = 49$$

$$a^2 + 1/a^2 = 47$$

we know that

$$a^3 + 1/a^3 = 7^3 - 3 \times 7$$

$$a^3 + 1/a^3 = 343 - 21$$

$$a^3 + 1/a^3 = 322$$

Now,

$$a^5 + 1/a^5 = (a^2 + 1/a^2)(a^3 + 1/a^3) - (a + 1/a)$$

$$a^5 + 1/a^5 = 47 \times 322 - 7$$

$$a^5 + 1/a^5 = 15127$$



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Question:2 The correct answer is **option 4** i.e. **97.84 liters**.

Total liquor in the vessel = 484

The remaining liquor in the first process = $1 - 36/484 = 112/121$

The remaining liquor in the second process = $1 - 22/484 = 21/22$

The remaining liquor in the third process = $1 - 16/484 = 117/121$

The remaining liquor in the fourth process = $1 - 32/484 = 113/121$

The left quantity of liquor in the vessel = $484 \times (112/121) \times (21/22) \times (117/121) \times (113/121) = 386.16$

So, the quantity of water = $484 - 386.16 = 97.84$ liters

Question:3 The correct answer is **option 4** i.e. **$7xa^4$** .

Let the fourth proportion be y

$$\Rightarrow 15ax^3 : 21a^3x^2 :: 5x^2a^2 : y$$

$$\Rightarrow 15ax^3/21a^3x^2 = 5x^2a^2/y$$

$$\Rightarrow y = \frac{5x^2a^2 \times 21a^3x^2}{15ax^3}$$

$$\Rightarrow y = 7xa^4$$

Question:4 The correct answer is **option 1** i.e. **Rs. 58.8**.

Marked Price = Discount + Selling price

Discount% = 14%

Marked price = Rs. 420

Difference = Discount = 14% of 420 = $14/100 \times 420 = \text{Rs. } 58.8$

Question:5 The correct answer is **option 1** i.e. **177361**.

Average = Sum of the observations/total observations

$$\text{Average} = (245145 + 185475 + 162354 + 257116 + 176458 + 163258 + 145258 + 125487 + 135698)/9$$

$$= 1596249/9$$

$$= 177361$$

Question:6 The correct answer is **option 2** i.e. **36%**.

Let the initial salary be Rs 1000

then it decreased by 60%, so salary now is Rs 400

Now, there is an increase in salary by 60%, so salary now is 60% of 400 + 400 = Rs 640

Thus, overall percentage reduction = $360/1000 = 36\%$.

Question:7 The correct answer is **option 3** i.e. **90°**.

Interior angle + Exterior angle = 180°

Convert the exterior angles given to interior angles,

Thus interior angle C = $180 - 150 = 30^\circ$

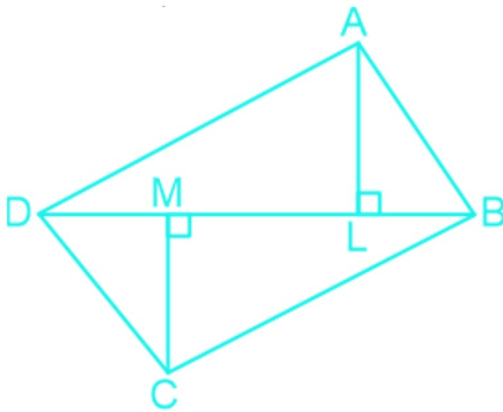
The sum of the three angles of a triangle is 180° .

Thus, $A + 60^\circ + 30^\circ = 180^\circ$

$A = 90^\circ$

Thus, the exterior angle to A = $180 - 90 = 90^\circ$.

Q:8 The correct answer is option 1 i.e. 15 cm^2 .



Given:

$BD = 15 \text{ cm}$, $AL = 4 \text{ cm}$, and $CM = 6 \text{ cm}$

Calculations:

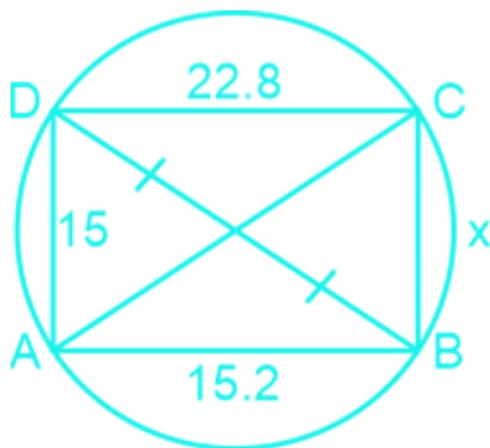
Area of $\triangle BCD = \frac{1}{2} \times 15 \times 6 = 15 \times 3 = 45 \text{ cm}^2$

Area of $\triangle ABD = \frac{1}{2} \times 15 \times 4 = 15 \times 2 = 30 \text{ cm}^2$

Hence,

Area of $\triangle BCD$ - Area of $\triangle ABD = (45 - 30) = 15 \text{ cm}^2$

Question:9 The correct answer is **Option 2** i.e. **22.5 cm**.



In the cyclic quadrilateral ABCD, AC bisects BD

So,

$$\Rightarrow AD/BC = AB/DC$$

$$\Rightarrow 15/x = 15.2/22.8$$

$$\Rightarrow x = 45/2 = 22.5 \text{ cm}$$

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

Divisibility rule of 132:- if a number is divisible by 3, 4 and 11, the number will be divisible by their product 132 also.

660, 754, 924, 1452, 1526, 1980, 2045, and 2170

Let's check for 660 = It is divisible by all 3, 4, and 11

Let's check for 754 = It is not divisible by 3, 4, and 11

Let's check for 924 = It is divisible by all 3, 4, and 11

Let's check for 1452 = It is divisible by all 3, 4, and 11

Let's check for 1526 = It is not divisible by all 3, 4, and 11

Let's check for 1980 = It is divisible by all 3, 4, and 11

Let's check for 2045 = It is not divisible by all 3, 4, and 11

Let's check for 2170 = It is not divisible by all 3, 4, and 11

So, only four numbers i.e. 660, 924, 1452, and 1980 is divisible by 132.

Best Quants Book for SSC CGL 2024

If you're aiming to master quantitative aptitude for SSC CGL Tier 1, "*Quant Sir*" by Raja Bhattacharjee is the guide you need. It breaks down each chapter, giving you time-saving shortcuts, insights from past exam questions, and expert tips on which ones to skip. You'll also get a detailed weightage analysis to help you prioritize. With over 4,000 questions sorted by difficulty—easy, moderate, and hard—this book is designed to sharpen your skills and elevate your preparation to the next level!



Important Quant Questions for SSC CGL - Practice Set of 10 Question

- **Comprehensive Exam Preparation:** *Quant Sir* equips you to tackle every aspect of the SSC CGL Tier I exam confidently.
- **8 Layers of Coverage:** The content is organized into 8 structured layers, ensuring thorough coverage of each topic.
- **Chapter-Specific Questions:** Strengthen your understanding with questions that emphasize key concepts from each chapter.
- **Previous Year's Questions:** Includes solved questions from the past 5 years to familiarize you with common question patterns.
- **Difficulty-Based Practice:** Over 4,000 questions categorized into easy, moderate, and hard levels to suit your proficiency.
- **New Question Types & Skipping Strategies:** Discover new question formats and expert advice on which questions to skip for better focus and time management.

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,

the Dhronas

. Practice hard, and best of luck with your upcoming exams. Keep following the Dhronas for updates, vacancy information, and other announcements.