

THE 5-SECOND HANDBOOK

Same
Concepts
Bigger
Results!

SSC CGL 2026 Quantitative Aptitude

Smarter
Faster
Stronger
for SSC!

- ✓ 50 Speed Tricks Mastered
- ✓ 300+ PYQs Solved with Zero-Pen Methods
- ✓ Formula-Free Elimination Across Arithmetic, Algebra, Geometry & Trigonometry
- ✓ 100% Exam-Tested on Latest TCS Pattern

Practice
Smart
Not
Hard!



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😊

“ मेहनत इतनी खामोशी से करो कि सफलता शोर मचा दे! ”



Target SSC CGL 2026:
50/50 in Quantitative Aptitude!

Dream
Prepare
Crack!

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CHAPTER 1: ZERO-PEN ELIMINATION

Trick #01: Chain Ratio Method

Less
Calculation
More
Selection!

Question - English:

If $A : B = 7 : 5$, $B : C = 2 : 3$, and $C : D = 4 : 5$, find the ratio $A : D$.

Question - Hindi:

यदि $A : B = 7 : 5$, $B : C = 2 : 3$, तथा $C : D = 4 : 5$ है, तो $A : D$ का अनुपात ज्ञात कीजिए।

Options:

A) 14 : 25

B) 28 : 25

✓ C) 56 : 75 (CORRECT ANSWER)

D) 75 : 56

Think
Smart
Eliminate
Fast!

⚡ 5-Second Solution & Elimination Method:

🔧 Technique: Chain Ratio Method

To find the compound ratio of endpoints ($A : D$), multiply all individual ratios:

$$A/D = (A/B) \times (B/C) \times (C/D)$$

$$A/D = \frac{7}{5} \times \frac{2}{3} \times \frac{4}{5}$$

Simplify the fraction:

$$A/D = \frac{7 \times 2 \times 4}{5 \times 3 \times 5}$$

$$A/D = \frac{56}{75}$$

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Verification (Divisibility):

- Numerator must be a multiple of 7. 56 is divisible by 7 (✓).
- Denominator must be a multiple of 25. 75 is divisible by 25 (✓).



Answer: C) 56 : 75

➤ 17 Curated Speed Tricks
from SSC CGL PYQs ➤

Trick #03: Base 100 Assumption (Percentage Chaining)

Question - English :

A book publisher offers a novel to a bookstore at a 30% discount on the cover price. However, they charge an additional 5% on the discounted price for shipping. The bookstore sells the novel for ₹1620 more, earning a profit of 40%. What was the original cover price of the novel?

Question - Hindi :

एक पुस्तक प्रकाशक एक पुस्तक की दुकान को कवर मूल्य पर 30% छूट पर एक उपन्यास बेचता है। हालांकि, वे शिपिंग के लिए छूट वाले मूल्य पर 5% अतिरिक्त शुल्क लेते हैं। पुस्तक की दुकान उपन्यास को ₹1620 अधिक में बेचती है, जिससे उसे 40% का लाभ होता है। उपन्यास का मूल कवर मूल्य क्या था?

Options :

- ☒ A) ₹5,510.20 (CORRECT ANSWER)
B) ₹19,254.62
C) ₹18,181.82
D) ₹20,654.67

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⚡ 5-Second Solution & Elimination Method :

📌 Technique : Base 100 Assumption

Assume Original Cover Price (MP) = $100x$

Step 1: Calculate Bookstore's Cost Price (CP)

$$\text{Discounted Price} = 100x - 30\% = 70x$$

$$\text{Shipping added} = 5\% \text{ of } 70x = 3.5x$$

$$\text{Total CP for bookstore} = 70x + 3.5x = 73.5x$$

Step 2: Calculate Profit

$$\text{Profit} = 40\% \text{ of CP}$$

$$\text{Profit} = 40\% \text{ of } 73.5x = 0.4 \times 73.5x = 29.4x$$

Step 3: Equate with actual profit

$$\text{Given Profit} = ₹1620$$

$$29.4x = 1620$$

$$x = \frac{1620}{29.4} = \frac{16200}{294} = \frac{2700}{49}$$

Step 4: Find Original Cover Price

$$\text{MP} = 100x = 100 \times \frac{2700}{49}$$

$$\text{MP} = \frac{270000}{49} \approx 5510.20$$

Think
Smart
Eliminate
Fast!

Practice
More
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Answer: A) ₹5,510.20

Trick #09: Rule of Alligation Averages

Topic: Averages', 'Alligation

Question - English :

56. The overall average salary for all employees in an office is ₹16,000. Officers earn an average salary of ₹28,000, while non-officers make an average of ₹10,000. If there are 15 officers, determine the number of non-officers.

Question - Hindi :

56. एक कार्यालय में सभी कर्मचारियों का कुल औसत वेतन ₹16,000 है। अधिकारी औसतन ₹28,000 अर्जित करते हैं, जबकि गैर-अधिकारी औसतन ₹10,000 अर्जित करते हैं। यदि 15 अधिकारी हैं, तो गैर-अधिकारियों की संख्या ज्ञात कीजिए।

Options :

- ☒ A. 30 (CORRECT ANSWER)
- B. 40
- C. 50
- D. 60

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 5-Second Solution & Elimination Method:

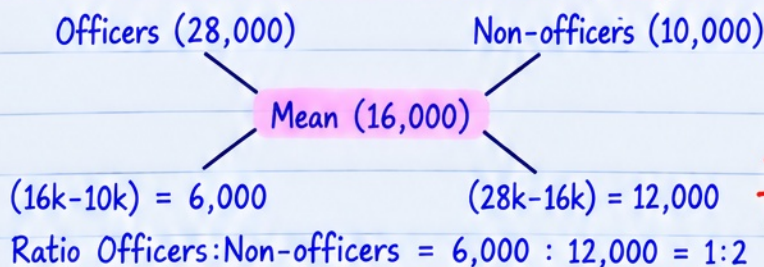


Answer: A. 30

Solution! 

Technique: Rule of Alligation

Step 1: Find ratio of Officers to Non-officers using Alligation:



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Step 2: Solve for Non-officers (Officers = 15):

Non-officers = $15 \times 2 = 30$

Trick #24: BODMAS Rule

Topic: BODMAS Rule

Question - English:

53. Evaluate:

$$6 - \left[\frac{2}{3} \div \left\{ \frac{1}{6} + \left(\frac{1}{2} \times \left(1 - \frac{1}{3} \right) \right) \right\} \right]$$

Question - Hindi:

53. ज्ञात कीजिए।

Options:

- ☒ A. $14/3$ (CORRECT ANSWER)
B. $15/3$
C. $16/3$
D. $17/3$



⚡ 5-Second Solution & Elimination Method

📖 Technique: BODMAS Rule

Step 1: Inner brackets $\left(1 - \frac{1}{3} \right)$

$$\rightarrow \frac{2}{3}$$

Step 2: Multiply $\frac{1}{2} \times \frac{2}{3}$

$$\rightarrow \frac{1}{3}$$

Step 3: Curly braces $\left\{ \frac{1}{6} + \frac{1}{3} \right\}$

$$\rightarrow \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

Step 4: Square brackets $\left[\frac{2}{3} \div \frac{1}{2} \right]$

$$\rightarrow \frac{2}{3} \times \frac{2}{1} = \frac{4}{3}$$

Step 5: Final subtraction $6 - \frac{4}{3}$

$$\rightarrow \frac{18}{3} - \frac{4}{3} = \frac{14}{3}$$



Answer: A. $14/3$

Trick #40: Pythagorean Triplet Recognition

Question - English :

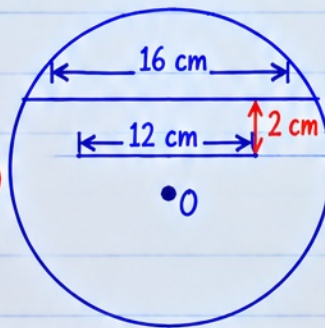
There are two parallel chords measuring 16 cm and 12 cm, both situated on the same side of the center of a circle. The space between the two chords is 2 cm. What is the radius of the circle?

Question - Hindi :

एक वृत्त के केंद्र के एक ही ओर स्थित 16 सेमी और 12 सेमी माप वाली दो समांतर जीवाएँ हैं। दोनों जीवाओं के बीच की दूरी 2 सेमी है। वृत्त की त्रिज्या क्या है ?

Options :

- A) 8 cm
☒ B) 10 cm (CORRECT ANSWER)
C) 12 cm
D) 15 cm



Think
Smart
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Fast!

⚡ 5-Second Solution & Elimination Method :

📌 Technique : Pythagorean Triplet Recognition

Half-chords are 8 cm ($16/2$) and 6 cm ($12/2$).

Notice the numbers 6 and 8. The classic Pythagorean triplet is (6, 8, 10).

If radius $r = 10$:

$$\text{Distance to 16 cm chord} = \sqrt{(10^2 - 8^2)} = 6 \text{ cm}$$

$$\text{Distance to 12 cm chord} = \sqrt{(10^2 - 6^2)} = 8 \text{ cm}$$

Difference in distances:

$$8 - 6 = 2 \text{ cm (Exactly matches the given space between chords!)}$$

Thus, the radius must be 10 cm without solving the quadratic equation.

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Answer: B) 10 cm

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