

Chhattisgarh Public Service Commission

Chhattisgarh



Set - 1

MATHS

UP, MP, Bihar, Odisha, Rajasthan, WB, Assam,
HP, Uk, GJ, MH, Punjab, Karnataka, CG



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**SSC CGL
selected**

**SSC CGL Mains
maths score
200 out of 200**



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If $(x + y)^3 + 8(x - y)^3 = (3x + Ay)(3x^2 + Bxy + Cy^2)$

then the value of $(C - A + B)$ will be :

☐☐☐ $(x + y)^3 + 8(x - y)^3 = (3x + Ay)(3x^2 + Bxy + Cy^2)$

☐☐, ☐☐ $(C - A + B)$ ☐☐ ☐☐☐ ☐☐☐☐ :

(A) 0

(B) 3

(C) 2

(D) 4

एक तल 264 और

आयतन 24 घन और

:

- (A) 3: 7
(B) 7: 3
(C) 6: 7
(D) 7: 6

In $\triangle ABC$, $\angle A = 48^\circ$. If the bisectors of $\angle B$ and $\angle C$ meet at I , then the measure of $\angle BIC$ will be :

$\triangle ABC$ में $\angle A = 48^\circ$ है। $\angle B$ और $\angle C$ के बिसेक्टर I पर मिलते हैं। $\angle BIC$ का माप ज्ञात करें।

(A) 119°

(B) 138°

(C) 114°

(D) 102°

Hari and Mohan can do a work in 20 and 25 days respectively. After doing collectively 10 days of work, they leave the work due to illness and Shyam completes rest of the work in 3 days. How many days Shyam alone can take to complete the whole work?

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□□□□□ □□□ □□□□?

- (A) 32 □□□
(B) 28 □□□
(C) 29 □□□
(D) 30 □□□

What is Arnav's present age? /

II. Present ages of Arnav and his son are in the ratio of 11: 6

I. □□□□ □□□□ □□□□ □□□□ □□ □□□□ □□□□ □□□□ □□ □□ □□□□ □□

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II. [] [] [] [] [] और [] [] [] [] [] [] [] [] [] [] [] [] [] [] **11: 6** [] [] [] [] [] [] [] [] [] []
[] []

III. अब और

12:7

- (A) I, II and III
(B) Only II and III
(C) Any two of the three
(D) Only I and III

What is the speed of the current? /

I. Speed of the boat is 8km/hr in still water

II. The boat runs at a speed of 11km/hr downstream

III. The difference between the speeds of the boat while travelling in still water and downstream is 3 km/hr

I. □□□□□□ □□□□□□ □□□□□□ □□□□□□ □□□□□□ **8**□□.□□./□□.□□

II. □□□ □□□□ □□ □□□□ □□□ **11** □□.□□./□□ □□ □□□□□□ □□ □□□□□□
□□

III. जल

(A) Any one of the three

(B) Only I and II

(C) Only III

(D) Either I and II together or only III

Directions: Study the pie-chart and answer Question

Break-up (degree-wise) of students in terms of specialisation in different areas

(A, B, C, D and E) in an MBA program Total number of students = 2100

एकएम.ए. छात्रों को (A, B, C, D और E) में MBA प्रोग्राम में

विभिन्न क्षेत्रों में विशेषज्ञता के आधार पर (दर-दर)

छात्रों का बंटवारा है - अप(

छात्रों का बंटवारा है - () छात्रों का बंटवारा है

छात्रों का बंटवारा है = 2100

The number of students specialising in E is what percent more than that of students specialising in C ?

E छात्रों की संख्या C छात्रों की संख्या से

कितना प्रतिशत अधिक है ?

छात्रों की संख्या C छात्रों की संख्या से

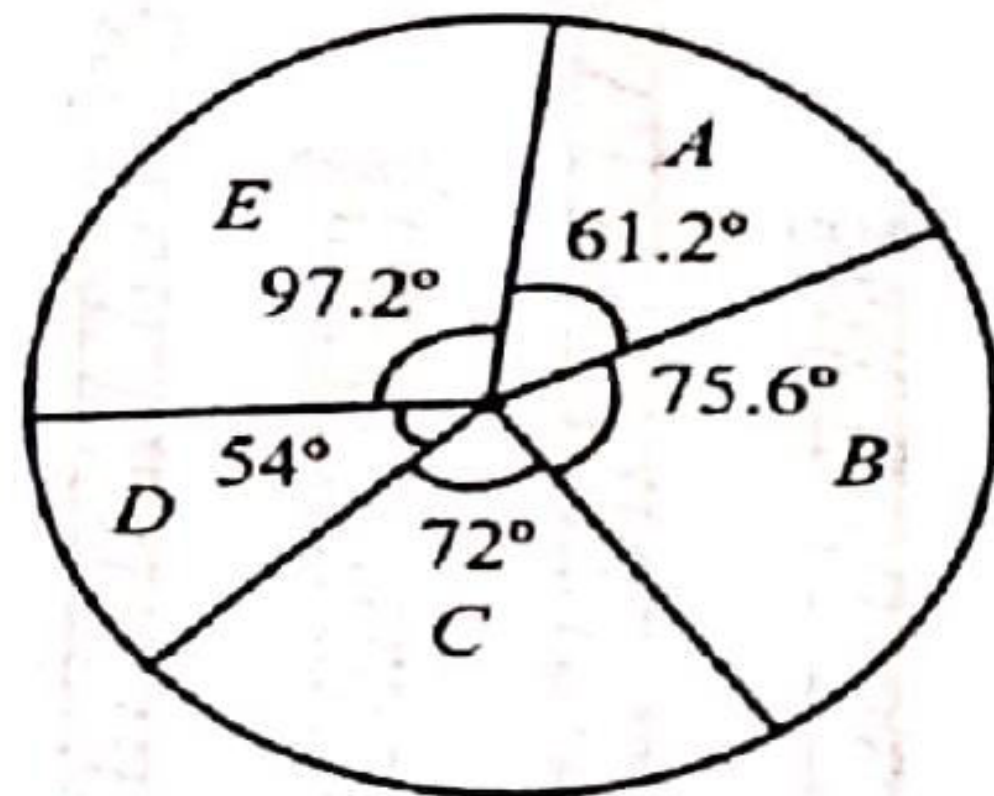
कितना प्रतिशत अधिक है ?

(A) 25.9%

(B) 35%

(C) 32%

(D) 31.4%



Directions: Study the pie-chart and answer Question

Break-up (degree-wise) of students in terms of specialisation in different areas

(A, B, C, D and E) in an MBA program Total number of students = 2100

एकएम.ए. छात्रों को (A, B, C, D और E) में

विशेषज्ञता के क्षेत्रों में (A, B, C, D और E) में

विशेषज्ञता के क्षेत्रों में (A, B, C, D और E) में

कुल छात्रों की संख्या = 2100

The total number of students specialising in A and B exceeds the total number of students specialising in C and D by x , which lies between :

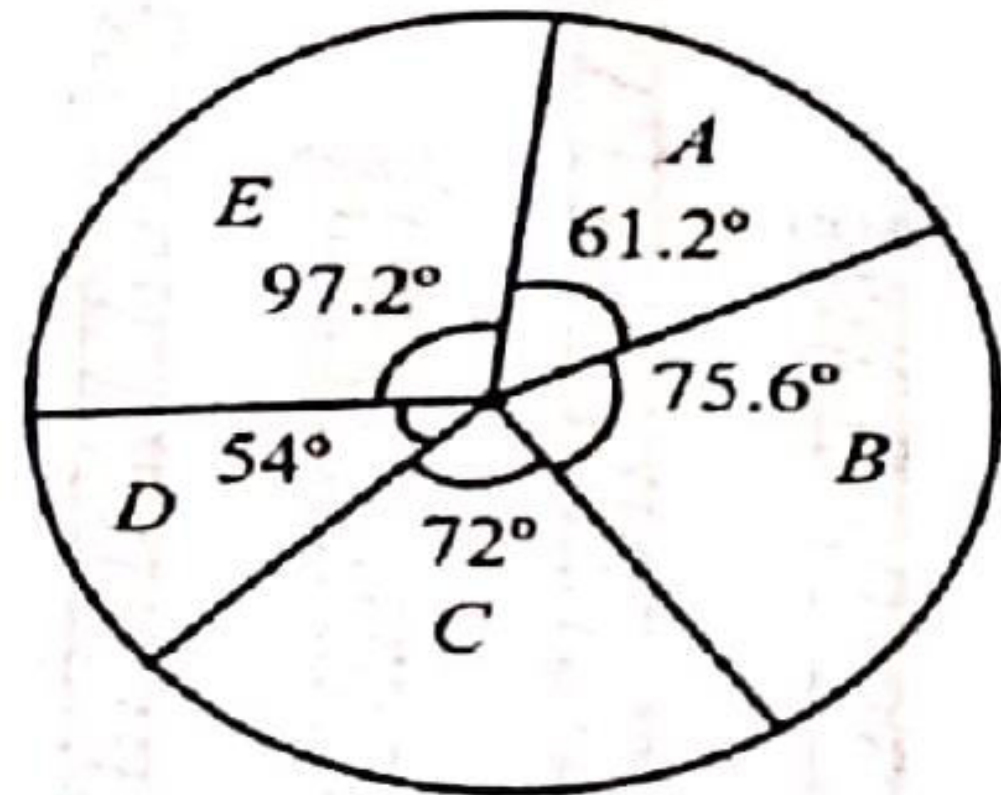
A और B के छात्रों की संख्या C और D के छात्रों की संख्या

से x अधिक है, जहाँ x के मान

निम्नलिखित में से एक है :

(A) 65 और 70 (B) 55 और 60

(C) 60 और 65 (D) 50 और 55



In $\triangle ABC$, D and E are the points on sides AB and AC respectively such that DE is parallel to BC . If $AD:DB = 3:4$, then what is the ratio of area of $\triangle ADE$ to that of the trapezium $DECB$?

$\triangle ABC$ में D और E क्रमशः AB और AC के बिंदु हैं जो इस प्रकार हैं कि DE, BC के समांतर हों। यदि $AD:DB = 3:4$ हो, तो $\triangle ADE$ के क्षेत्रफल और $DECB$ के क्षेत्रफल का अनुपात क्या होगा ?

- (A) 27: 64
- (B) 9: 49
- (C) 9: 40
- (D) 3: 7

A batsman has a certain average of runs for 16 innings. In the 17 th innings, he makes a score of 102 runs, thereby increasing his average by 4. What is his average after the 17 th innings?

एक 16 एक औसत रन
17 वह 102 रन औसत और
 17 औसत ?

(A) 27

(B) 34

(C) 31

(D) 38

A result of a survey of 960 persons with respect to their knowledge of Hindi (H), English (E) and Sanskrit (S) is given below :

□□□□□□ (H), □□□□□□□□ (E) और □□□□□□□□ (S) □□ □□□□□□ □□□ 960

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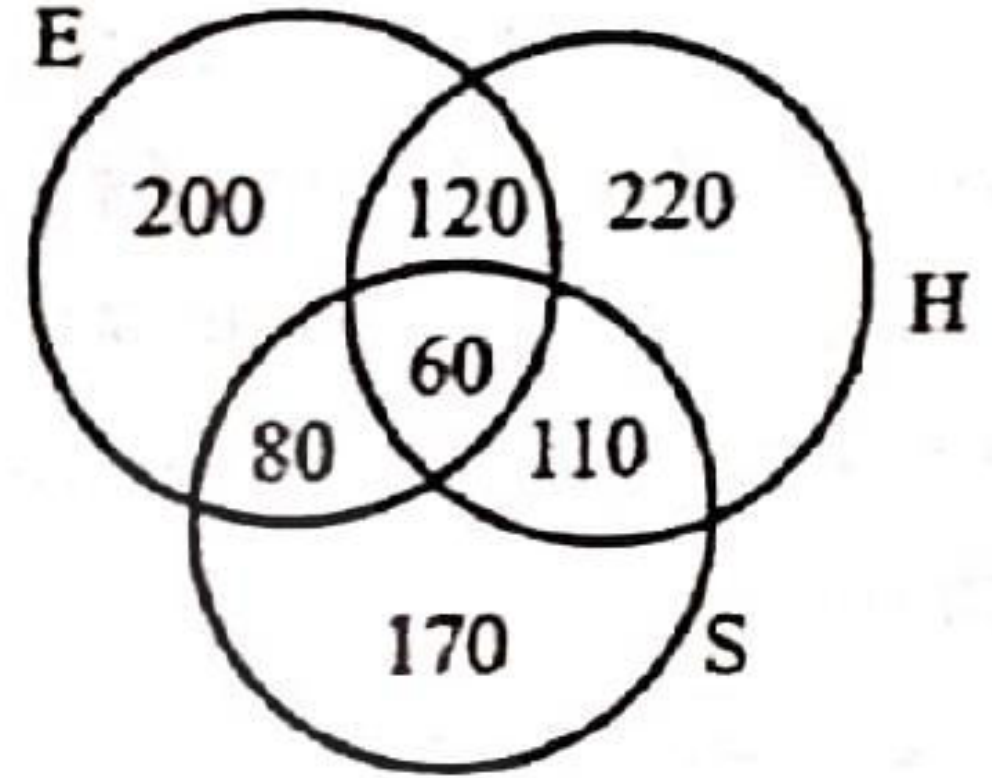
What is the ratio of those who know all the three languages to those who do not know Sanskrit?

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□□□□□□□□ □□□□□□ □□ ?

- (A) $\frac{1}{9}$ (B) $\frac{1}{10}$
 (C) $\frac{10}{17}$ (D) $\frac{5}{27}$



Which one of the following is greatest?

[illegible]

$$\frac{7}{9}, \frac{2}{5}, \frac{3}{8} \text{ and } \frac{5}{11}$$

(A) $\frac{2}{5}$

(B) $\frac{3}{8}$

(C) $\frac{7}{9}$

(D) $\frac{5}{11}$