FOR CUET, XET, JHCCEE, SET, BUMAT, SVUET, etc.

MATIS (10 Maxies

BBA BCA CET 2025 REASONING ONE SHOT REVISION VISION ACADEM A number of three digits when divided by 2, 5, 9, 11 eaves remainder 1 in each case. The number is LCM -> 2,5,9,11 (a) 981 (b) 983 373 2×5×9×11 = 990 => LCM (c) 991 (d) 997 4 99]

When a number is divided by 24, the remainder is 16. The remainder when the same number is divided by 12 is

A. 3 B. 4 C. 6 D. 8

Dividend = Divisor × Quotient + Remainder $X = 24 \times R_1 + 16$ $\times 2Q_1 + R$ X = 1 $16 = 12 \times 1 + 14$ ×2 Remainder

VISION

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Evaluate
$$\sqrt{129 + \sqrt{216 + \sqrt{68 + \sqrt{169}}}}$$

A. 13
B. 15
C. 9
D. 12
D. 12
 $\sqrt{216 + \sqrt{68 + \sqrt{169}}}$
 $\sqrt{51}$
 $\sqrt{216 + 9} = \sqrt{2.25} = \sqrt{15 + 12.9}$
 $= \sqrt{144}$
 $= \sqrt{144}$

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The simplified value of $\frac{112}{\sqrt{196}} \times \frac{\sqrt{576}}{12} \times \frac{\sqrt{256}}{8}$ is - X <u>+6</u> 2 8 8. HZ x 29 A. 12 12 **B.** 8 H C. 16

D. 32

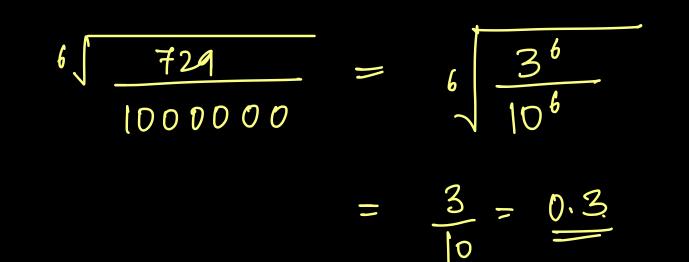
 $= 8 \times 4 = 32$



The value of $\sqrt[6]{0.000729}$ is

A. 0.027 B. 0.3 C. 0.03

D.0.09



1499 × 1499 = ?

A. 19501

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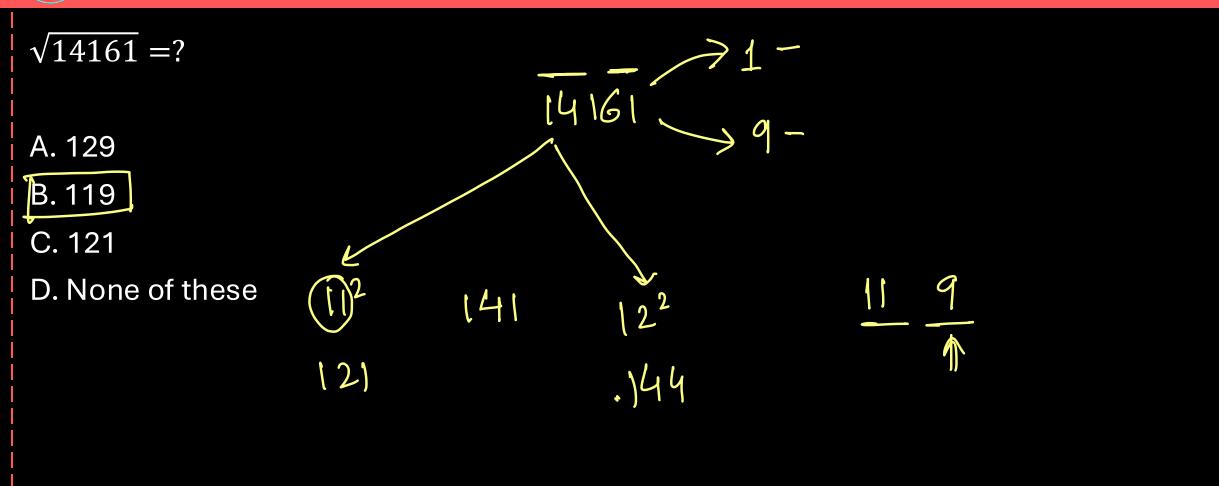
B. 1900501

2247001

D. 2204701

 $[499^{2} = [1500 - 1]^{2} (a - b)^{2} = a^{2} - 2ab + b^{2}$ = 22,50,000 - 3000+1

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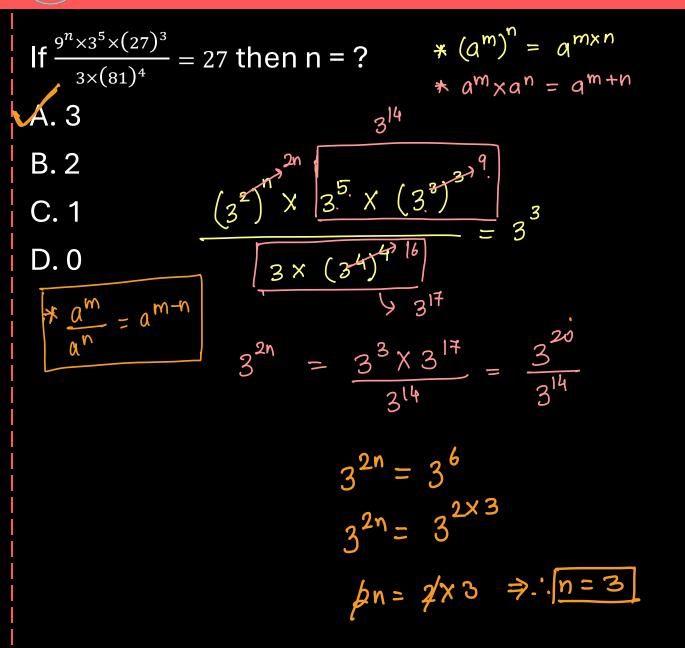


 $\sqrt{0.04} = ?$

A. 0.002 B. 0.02 C. 0.2

D. None of these

 $\frac{2}{2} = 0.2$ 4 0 (00)



VISION ACADEM

Ram went to a market and bought one copy of a Mathematics book and two pencils for ₹165. Rahim went to the same market and bought another copy of the same book and ten pencils of the same brand for ₹169. The price of each pencil was

₩.₹0.50

C. ₹0.75

B.₹1

D.₹2

Ram $\rightarrow 1 \text{ book} + 2 \text{ pencil} = Rs. 165$ Rahim $\rightarrow 1 \text{ book} + 10 \text{ pencil} = Rs. 169$ Difference $\Rightarrow 8 \text{ pencil} = Rs. 4$ $1 \text{ pencil} = \frac{4}{8} = Rs. 0.50$ 8

How many $\frac{1}{8}$ are in $\frac{1}{2}$? English A. 8 Dearoning **B**.4 uant C. 2 $\chi = \frac{1}{24} \times \frac{2}{5} = 4$ D. 16

The difference of the place value and the face value of the number 3 in 12345 is

A. 299 B. 297 C. 298

D. None of these

300-3=297

place value = 300 face value = 3

When 121012 is divided by 12, the remainder is

A. 0

B. 2

C. 3

D. 4

10084 12)(2|0|212111 010 52 48

The average of 10, 12, 16, 20, p and 26 is 17. Find the value of p.

Avg = Sum Total was

(a) 17
(b) 18
(c) 15
(d) 16

10+12+16+20+p+26 = 176 84 = 102 p = (18)

The average of 11 results is 60 marks. If the average of first six results is 59 marks and that of the last six is 62 marks, then the sixth result contains $T_{11} = 60 \implies T_{11} = 660$ (a) 65 marks 💋 66 marks (c) 60 marks $T_{F6} = 59 \Rightarrow T_{F6} = 354$ (d) 61 marks $L_{L_{0}} = 62 \implies T_{L_{0}} = 372$ $6^{\text{fn}} \text{ferm} = 726 - 660 = 66$ h

The average wage of workers in a factory is ₹ 6000 . There are 12 officers having an average wage of ₹ 14000, while the average wage of the remaining persons is ₹ 5600, the number of the workers in that factory is

Ang = <u>Total</u> Nos. Total = X Total of all = 6000 XX A. 242 B. 252 Officer total= 14000×12= 168000 C. 240 total of rem. = 5600X (x-12) = 5600x - 67200 D. 230 6000 = 168000 + 5600 - 67200 $400x = 100800 \rightarrow x = -100800$ 400

16

The average of 5 numbers is 20 and 4 of the numbers are 10, 15, 20 and 25. If the numbers are arranged in ascending order, then the average of the last three is

A. 25	10 + 15 + 20 + 25 + 2 = 20	
B. 18.75	5	
C. 24		
D. 22.23	70+x = 100	
	$\chi = 30$	
	10, 15, 20, 25, 30	$\frac{75}{3} = 25$

The least ratio among 10 : 18, 7 : 21, 12 : 16, 8 : 20 is

- A. 12 : 16
- B. 10 : 18
- C. 8 : 20

 $\frac{1}{21} = \frac{1}{3} = 0.33...$ $\frac{10}{18} = 0.5^{\uparrow}$ $\frac{0}{20} = \frac{4}{10} = \frac{2}{5} = 04$ $\frac{12}{6} = \frac{3}{4} = 0.75$

If x be the mean proportion between (x - 2) and (x - 3), then the value of x is $a_{\prime} \not b_{\prime} c_{\prime}$

A. 6 B. 5 Ø. 6/5

D. 5/6

 $=\frac{\chi}{\chi-3}$ $\chi^2 = (\chi - \dot{z})(\chi - \dot{z})$ $\chi^2 = \chi^2 - 5\chi + 6$ 5n = 6n = 6

The fourth proportional of the numbers 12, 16, 18 is

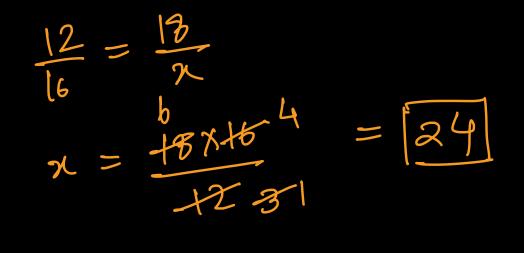
a, b, c, d

a = c b = d = 4th propositival

A. 28 B. 30

C. 20

D.24



A certain number is divided into two parts such that 5 times the first part added to 11 times the second part makes 7 times the whole. The ratio of the first part to the second part is

A. 2:1 B. 5:11 C. 1:2

C. I:2

D. 2:3

$$X = m + n$$

$$\int_{m}^{m} \frac{m}{n} = \frac{2}{n}$$

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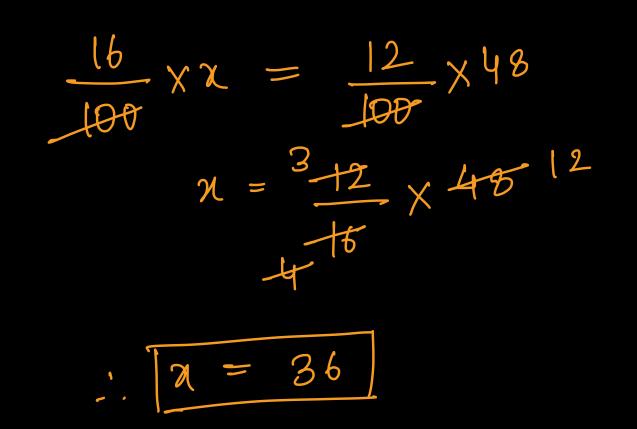
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$$\int_{m}^{m} \frac{m}{n} = \frac{4}{2}$$

$$\int_{m}^{m} \frac{m}{n} = \frac{2}{1}$$

If 16% of x is same as 12% of 48, then x = ?





80% of 1450 is

 $\frac{80}{100} \times 1450 = 1160$

(b) 1235

(a) 1160

- (c) 1045
- (d) 1250

0.008 is what per cent of 0.2?

- (a) 0.4
- (b) 2
- (c) 40 (d) 4

 $\chi_{100} = \frac{0.8}{0.2} = 4\%$ 0.008 0.2

If $x \% \text{ of } \frac{25}{2} \text{ is 150, then the value of x is}$ A. 1000 B. 1200 C. 1400 D. 1500 A. 100 A. 1000 A. 1

 $\chi = 150 \times 8$

 $\chi = |200$

10% of 15% of 20% of ₹ 500 is ?

A. ₹ 225

B.₹150

C. ₹ 67 D. ₹ 1.50

 $\times \frac{2\phi}{1\phi\phi} \times 5\phi\phi$ 00 00 3/2 $\boldsymbol{\times}$ 3\$ 1\$×15

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OD

151

50

 $\frac{35}{100} + X = 12$

12

 $= 12 \rightarrow \chi = \frac{4}{20} \times 1000$

£ =

G 0

If 35% of a number is 12 less than 50% of that number, then the number is

50

100

80X

100

X

(a) 80

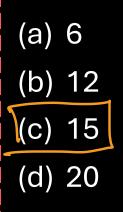
(b) 60

(c) 50

(d) 40

27

What per cent of 400 is 60?

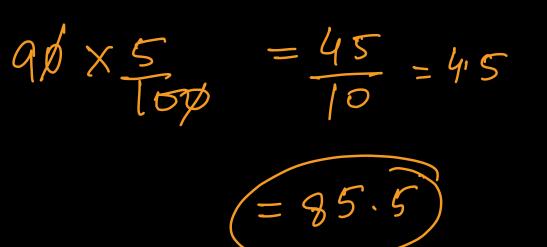


 $\frac{\chi}{100} \times 400 = 60$ $\chi = \frac{60}{9} = 15\%$

If the loss on an article is 5% and its cost price is ₹ 90, selling price .

A. ₹ 95.50 8. ₹ 85.50 C. ₹ 85

D.₹95





A defective TV costing 5000 is being sold at a loss of 50%. If the price is further reduced by 50%, then its selling price is

A. ₹ 1225 B. ₹ 1250 C. ₹ 1025 D. ₹ 1200 CP = 50001088 = 50%

SPafter loss = 2500

New = 1280

A businessman marks his goods at such price that after allowing a discount of 15%, he makes a profit of 20%. The marked price (in ₹) of an article having cost price ₹ 170 is CP = 170MP = ?A. 236 CP = 170, Discount = 15%, Profit = 20%, MP='x' B. 220 C. 240 $P \operatorname{var} t = \frac{20}{100} \times 170 = \operatorname{Rs} \cdot \frac{34}{24}$ SP = MP - Discount D. 204 SP = MP - ISMPSP = CP + Profit $\overline{
 }$ Reasoning ONE Snot SP = 170 + 34 = 204204 = 85 MP 20 00





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