



SBI PO & CLERK 2023



Complete Batch

MATHS

DAY

9

TOP 500

Question Series

5 सालों में पूछे गए सारे प्रश्न

LIVE

11:00 AM





OBJEC T	COST PRICE	SELLIN G PRICE	MARK ED PRICE	PROFI T %	DISCO UNT %
A	22800	-----	27200	-----	-----
B	-----	-----	-----	30%	-----
C	-----	-----	28750	-----	14%
D	22000	26400	-----	-----	-----
E	-----	-----	38000	20%	-----



D:P

Question 14. The ratio of discount % and profit % of the C is 7 : 5. Find CP of C? (approximately)

$CP = MP \times \frac{100-D}{100+P}$

F=14%

प्रश्न 14. (7:5) के छूट % और लाभ % का अनुपात 7: 5 है। C का CP ज्ञात करें। (लगभग)

1=2%

40

P% 5 = 2x5 = 10%

Rs 23000

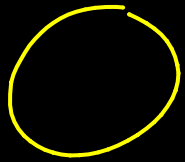
- A. Rs 18,000
- B. Rs 23000
- C. Rs 33,000
- D. Rs 13,000
- E. Rs 20,000

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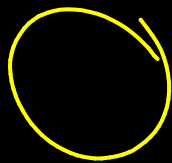
CP/SP



Question 15- The cost price of E is what percent of cost price of D?

प्रश्न 15- E का क्रय मूल्य, D के क्रय मूल्य का कितना प्रतिशत है?

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- A. 143.9%
- B. 160.23%
- C. 121.11%
- D. 87.75%
- E. None of these



CITY	POPULATION	MALE: FEMALE	PERCENTAGE OF LITERATE POPULATION
K	1050	4:3	60%
L	1280	5:3	75%
M	1200	5:7	72%
N	1440	5:4	65%
O	1080	8:7	70%

शिक्षित जनसंख्या%



Question 1- The literate population in city M is how much percentage more than the male population in city N?

① Literate M

प्रश्न 1- शहर M में साक्षर जनसंख्या, शहर N में पुरुष जनसंख्या से कितने प्रतिशत अधिक है?

= 72% of 1200

= 864

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Male N = $\frac{5}{9} \times \frac{160}{10} = 800$

% = $\frac{64}{800} \times 100 = 8\%$

A. 14%

B. 17%

✓ C. 08%

D. 22%

E. 10%



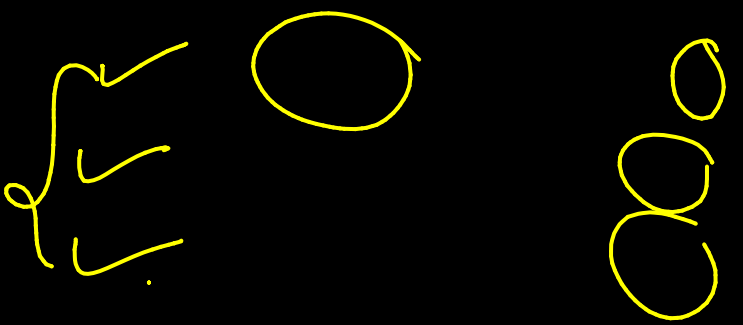
$$\begin{aligned}
 \text{Av.} &= \frac{3 \times 150 + 3 \times 160 + 7 \times 100}{7 + 8 + 12} \\
 &= \frac{450 + 480 + 700}{3} \Rightarrow \frac{1630}{3} = 543.3
 \end{aligned}$$

Question 2-Find the average of the female population in city K, L and M together.

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प्रश्न 2- शहर K, L और M में मिलाकर महिला जनसंख्या का औसत ज्ञात कीजिये।

- A. 110
- B. 210
- C. 610
- D. 120
- E. None of these





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$$\textcircled{1} N + M = 35\% \text{ of } 1440$$

$$+ 28\% \text{ of } 1200$$

Question 3— Find the illiterate population in N and M together.

प्रश्न 3- N और M में एक साथ अशिक्षित जनसंख्या ज्ञात कीजिए।

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$$\frac{72}{100} \times 1440$$

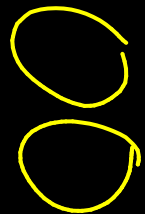
$$= 504$$

- A. 904
- B. 940

C. 804

D. 840 ✓

E. None of these





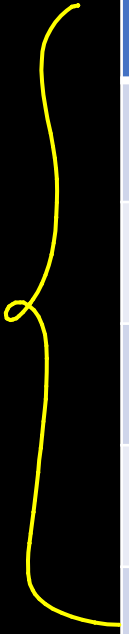
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NAME	R%	TIME	PRINCIPAL	AMOUNT
AJAY	6%	--	36000	----
SUMIT	6%	-- <i>years</i>	60000	-----
TANAY	---	<i>5 years</i>	----	58000
PREM	----	3	90000	-----
SURESH	8%	--- <i>years</i>	40000	-----
YASH	----	2	120000	-----





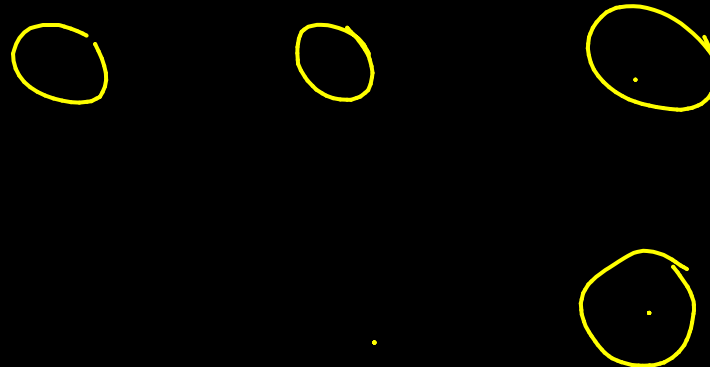
- A. 10200
- B. 19200
- C. 13400
- D. 16500
- E. None of these ✓

Question 4- If the difference between the interest received by Suresh and Sumit is Rs 8400 and Suresh invested his money for double the time period for which Sumit invested his money then find the amount received by Suresh ?

प्रश्न 4- यदि सुरेश और सुमित द्वारा प्राप्त ब्याज के बीच का अंतर 8400 रुपये है और सुरेश ने अपने पैसे को सुमित द्वारा निवेश की गई अवधि के दोगुने समय के लिए निवेश किया है, तो सुरेश द्वारा प्राप्त राशि ज्ञात कीजिये?

Sumit = T
 Suresh = 2T

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$$\underline{\text{Int. Simple}} \sim \underline{\text{Int. Sumit}} = \text{₹8400}$$

$$\frac{40000 \times 8 \times 2T}{100} \sim \frac{60000 \times 6 \times T}{100} = 8400$$

$$64T \sim 36T = 84$$

$$28T = 84$$

$$T = 3 \text{ years.}$$

$$\begin{aligned} \text{Amount} &= 148\% \text{ of } 40000 \\ &= \underline{\underline{59200 \text{ ₹}}} \end{aligned}$$

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$$S.I. = \frac{PRT}{100}$$



Qu 30
 ① Yash Trl
 5- If the interest received by Yash is 20% of the interest earned by her then find how much more money as interest she would have earned if she had invested the money in compound interest?

= 20% of 200000

= प्रश्न 50000

Int 20% है, उसके ज्ञात कीजिये कि यदि उसने चक्रवृद्धि ब्याज में धन का निवेश किया होता तो वह ब्याज के रूप में कितना अधिक पैसा अर्जित करती?

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- A. 1200
- B. 1400
- C. 1500
- D. 1600
- E. None of these

10% 0



$$R = \frac{120000 \times 10}{120000} \times 100$$

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$$R = 10\%$$

$$\begin{aligned} \text{Diff} &= 21\% - 20\% \\ &= 1\% \end{aligned}$$

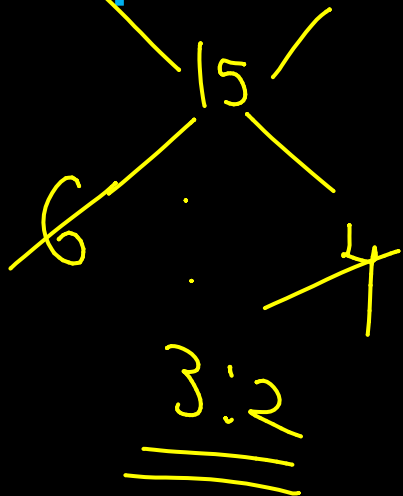
$$\begin{aligned} \text{Extra} &= 1\% \text{ of } 120000 \\ &= \underline{\underline{1200 \text{ Rs.}}} \end{aligned}$$



Question 6- Metal A is 19 times as heavy as liquid B and metal C is 9 times as heavy as liquid B. In what ratio should these metals be mixed so that the mixture may be 15 times as heavy as B?

प्रश्न 6- धातु A, तरल B से 19 गुना भारी है और धातु C, तरल B से 9 गुना भारी है। इन धातुओं को किस अनुपात में मिलाया जाना चाहिए ताकि मिश्रण B से 15 गुना भारी हो?

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A. 2:3

B. 5:4

C. 1:1

D. 3:2

E. None of these



Question 7- 47, 56, 81, 130, 194, 332, 501

$$+9 \quad +25 \quad +49$$

$$3^2 \quad 5^2 \quad 7^2$$

$$\begin{array}{r} 130 \\ - 81 \\ \hline 211 \\ \hline \hline \end{array}$$

A.81

B.194

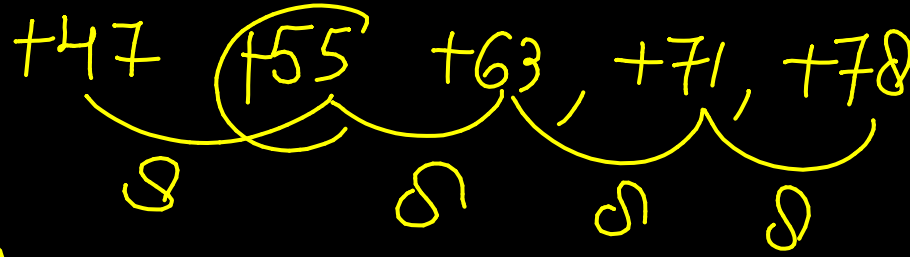
C.332

D.501

E.47



Question 8- 105, 152, 201, 270, 341, 420



105 + 47 = 152

152 + 49 = 201

201 + 69 = 270

270 + 71 = 341

341 + 79 = 420

207, 63 - 8 = 55

71 - 8 = 63

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A. 201

B. 270

C. 105

D. 341

E. 420

152

$$\begin{array}{r} 270 \\ -63 \\ \hline 207 \end{array}$$

63 - 8 = 55



Question 9- 4, 6, 16, 42, 90, 174

$$4 + 2 = 6$$

$$6 \times 2 + 4 = 16$$

$$16 \times 2 + 10 = 42$$

$$42 \times 2 + 12 =$$

$$90 \times 2 +$$

$$4 + 1 + 1^2 = 6$$

$$6 + 2 + 2^2 =$$

A.42

B.16

C.90

D.174

E.6

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Question 10- 5, 4.5, 3.5, 1.5, -2.5, -12.5

5 x 2 - 5.5 = 4.5

4.5 x 2 - 5.5 = 3.5

3.5 x 2 - 5.5 = 1.5

1.5 x 2 - 5.5 = -2.5

-2.5 x 2 - 5.5 = -10.5

$$\left. \begin{aligned} 4 + 1^2 + 1^3 &= 6 \\ 6 + 2^2 + 2^3 &= 16 \\ 16 + 3^2 + 3^3 &= \end{aligned} \right\}$$

-5-5.5

- A.-12.5
- B.-2.5
- C.1.5
- D.3.5
- E.4.5



Question 11-
530

1, 3, 15, 51, 131, 281,

Home work

- A.3
- B.1
- C.281
- D.530
- E.131

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③ ② ①
3

①

$$\frac{2 \times 10\% + 1 \times (-4)\%}{3} = \frac{800}{3}$$

$$\Rightarrow \frac{16}{3 \times 100} = \frac{50}{3}$$

$$1 = 5000$$

$$3 = 3 \times 5000 = \underline{\underline{15000}}$$

Question 12- Two-third of a consignment was sold at a profit of 10% and the remaining at a loss of 4%. If the total profit was Rs. 800, find the value of the consignment.

प्रश्न 12- एक खेप का दो-तिहाई भाग 10% के लाभ पर और शेष 4% की हानि पर बेचा गया. यदि कुल लाभ 800 रुपये था, तो खेप का मूल्य ज्ञात कीजिये।

A. 10,000

B. 12,000

C. 15,000

D. 27,000

E. 32,000

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Home work

Question 13- A person sells an article at 40% profit. Ha he bought it at 10% less and sells at Rs 640 less then he will gain 20%. Find the cost price of article.

प्रश्न 13- एक व्यक्ति एक वस्तु को 40% लाभ पर बेचता है। यदि वह इसे 10% कम पर खरीदता है और 640 रुपये कम पर बेचता है तो उसे 20% का लाभ होगा। वस्तु का क्रय मूल्य ज्ञात कीजिए।

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- A. Rs 3000
- B. Rs 1500
- C. Rs 2500
- D. Rs 3000
- E. None of



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