

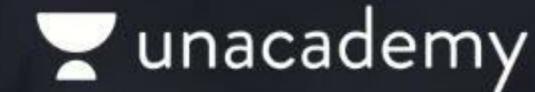
GATE 2021

GENERAL APTITUDE

धमाकेदार ट्रिक के साथ 🔥🔥

**PERCENTAGE- 3,
QUESTIONS DISCUSSION**

39



AVINASH SIR

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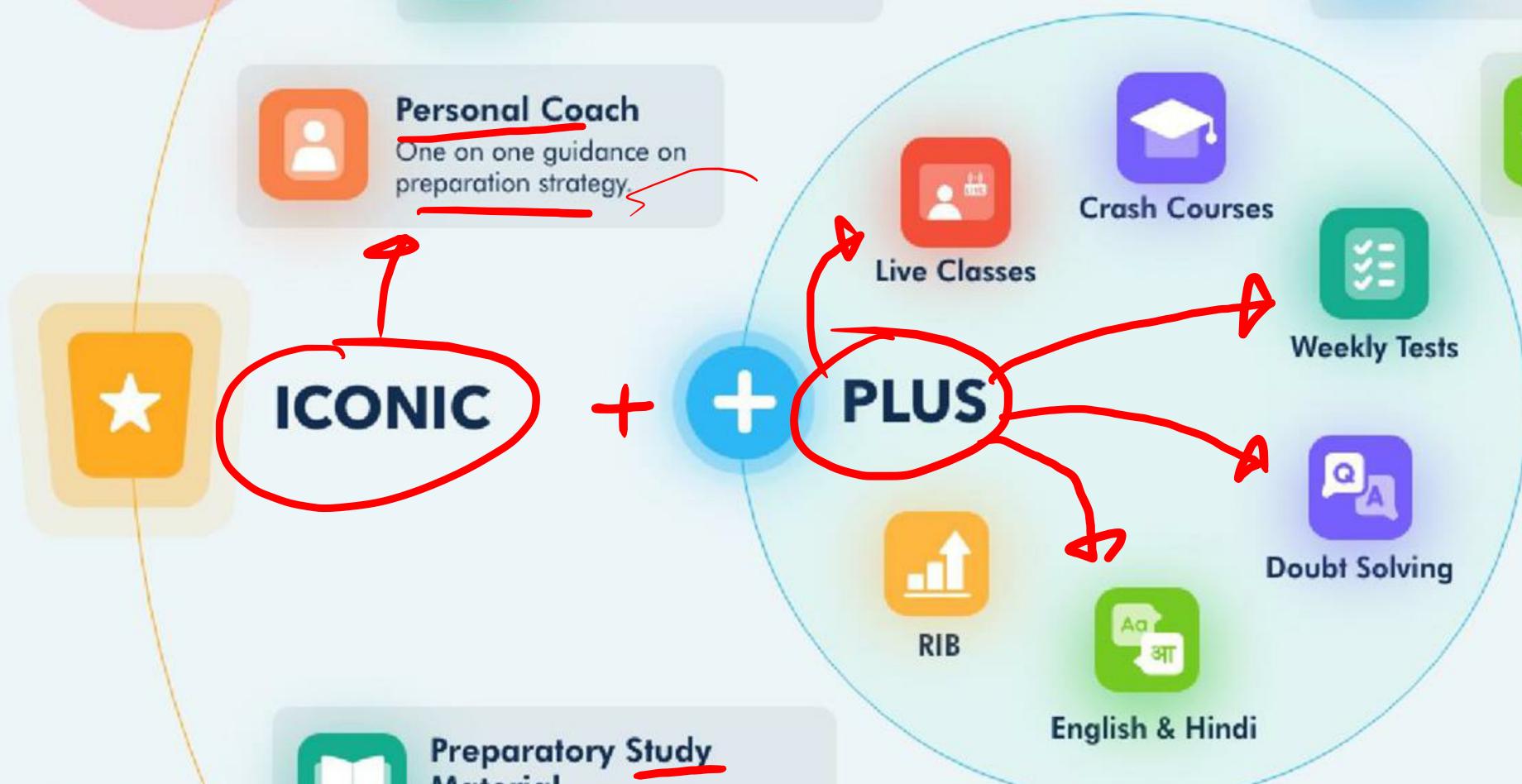


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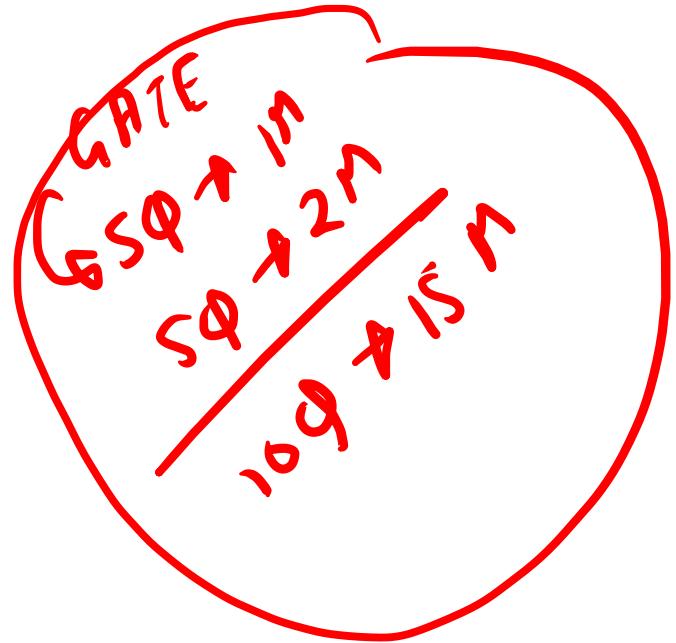
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BY AVINASH SIR

5 Dec, 2020

5 PM • Test-5

Topic Percentage

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**GATE
2021**

Analytical Aptitude

- Venn Diagram
- Syllogism
- Series
- Coding & Decoding
- Clock & Calendar
- Distance & Direction
- Blood Relation
- Seating Arrangements
- Puzzle

Quantitative Aptitude

- Time & Work
- Pipes & Cisterns
- Ratio & Proportion
- Number System
- Sequence & Series
- Average
- Time, Speed & Distance
- Percentage
- Profit, Loss & Discount
- Allegation & Mixture
- Powers, exponents and logarithms
- Algebra
- Permutation & Combination
- Probability
- Data Interpretation
- Mensuration and geometry

Spatial Aptitude

- Shape Matching - Two Dimensional
- Visual Comparison - Two Dimensional
- Group Rotation - Two Dimensional
- Combining Two Dimensional Shapes
- Cube Views in Three Dimensions
- Cubes in Two and Three Dimensions
- Other Solids in Two and Three Dimensions
- Block Counting in Three Dimensions
- Two-Dimensional Mirror Reflections
- Paper folding and Cutting

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~~Home Work Question~~



- A village lost 12% of its goats in a flood and 5% of remainder died from diseases. If the number left now is 8360, what was the original number before the flood?
- A) 1000 B) 10,000 C) 1,00,000 D) 8360

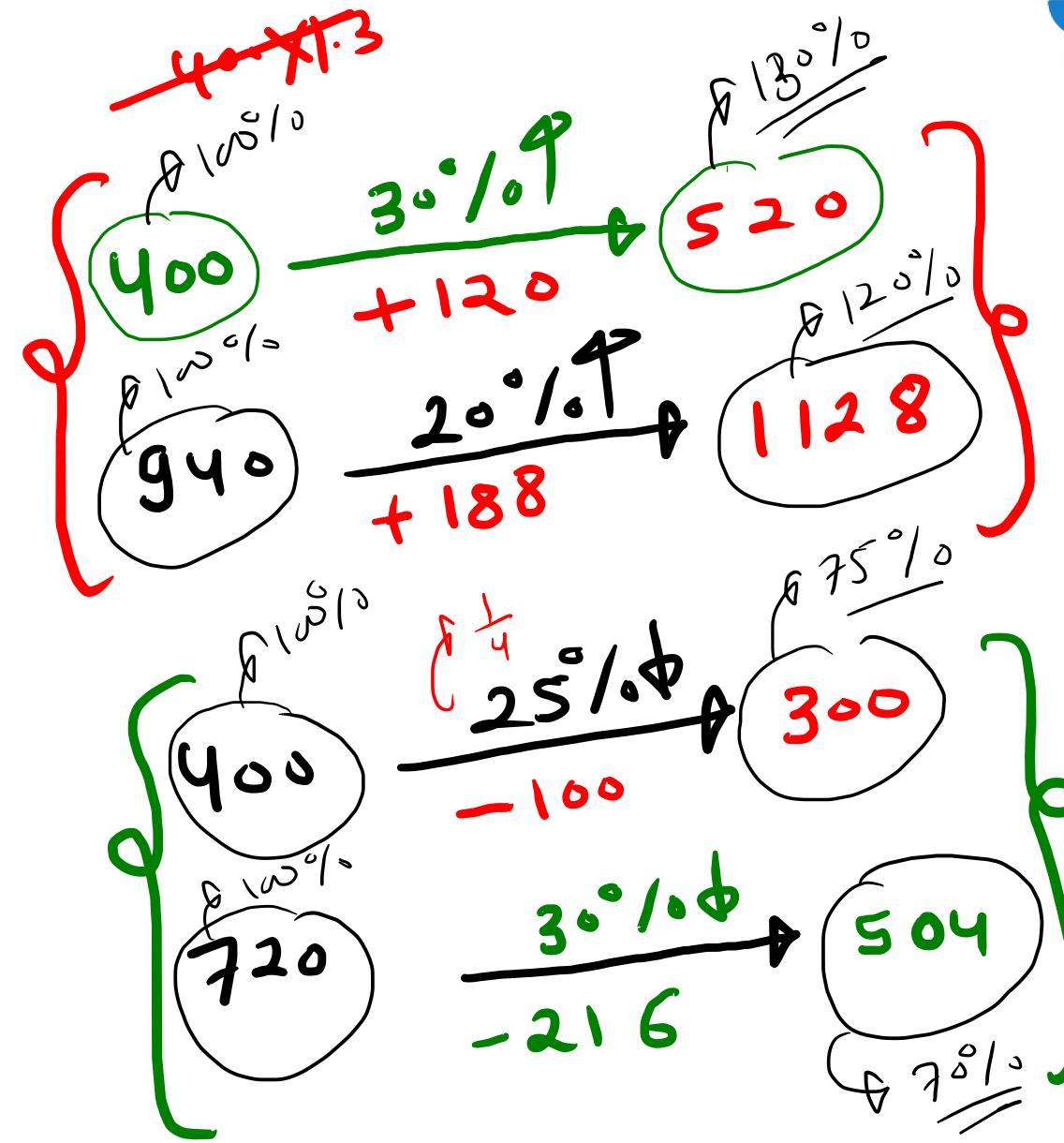
Today's Class Agenda

✓ Basic Concept of Percentage

✓ Practice questions based on Basic Concept

4 tyku

Type-I



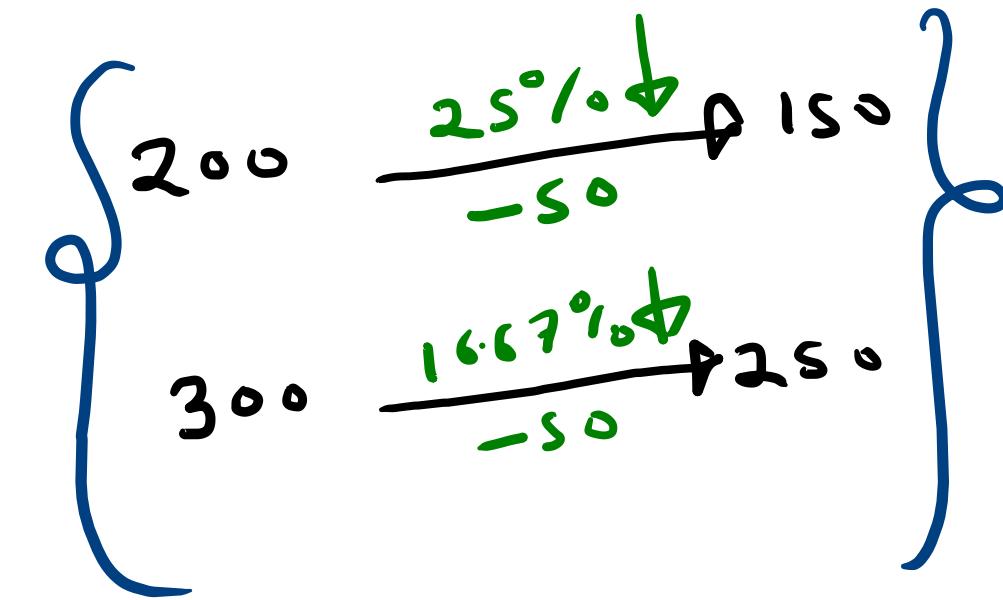
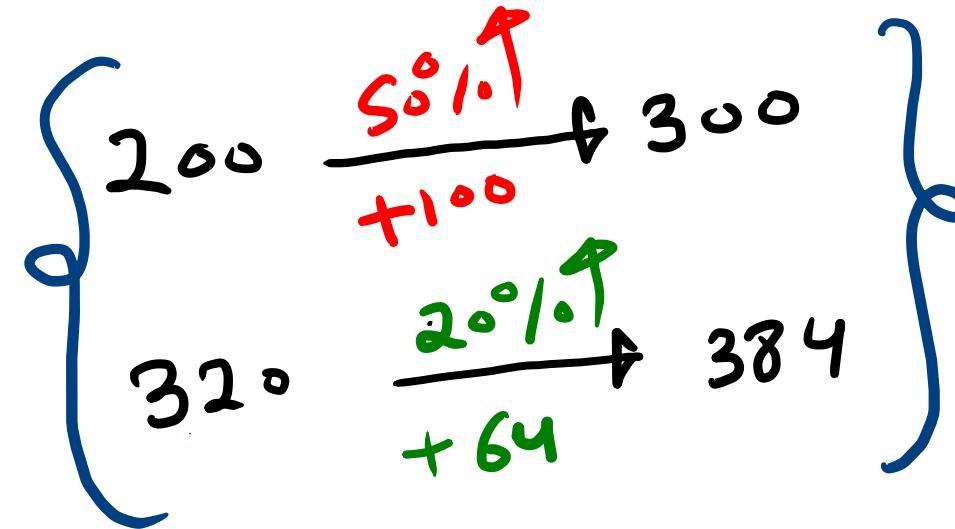
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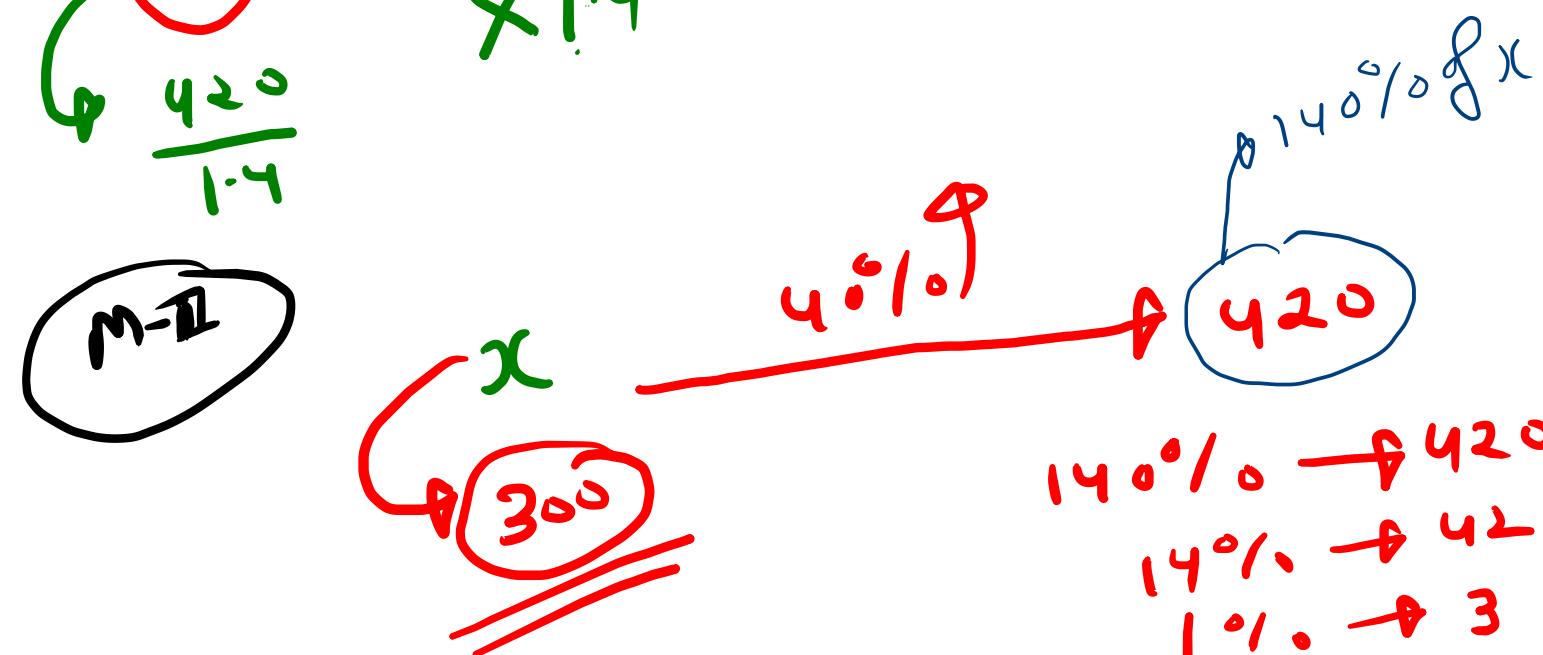
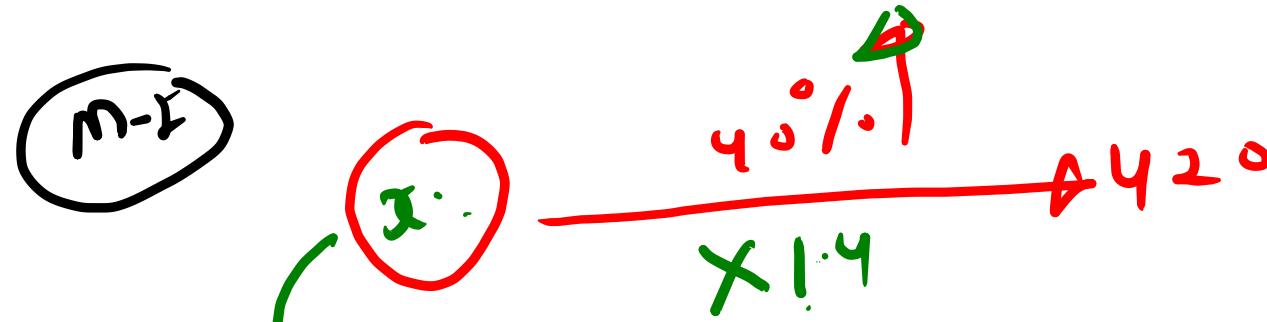
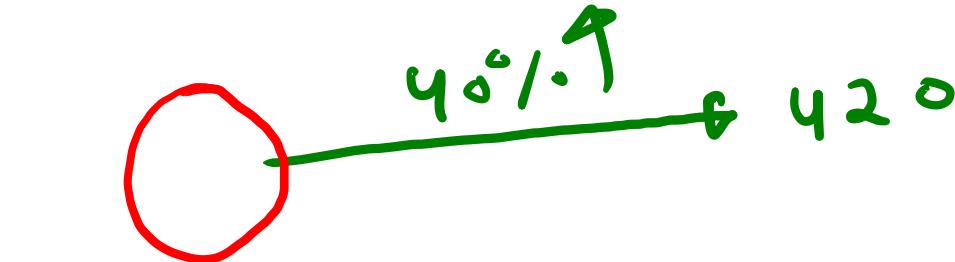
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Type-II


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Type III



$$\begin{aligned}
 140\% &\rightarrow 420 \\
 14\% &\rightarrow 42 \\
 1\% &\rightarrow 3
 \end{aligned}$$

$$\text{Original Price} \xrightarrow{20\% \text{ off}} 160$$

$M-F$

$$x \xrightarrow{20\% \text{ off}} x \cdot 8$$

$$x \xleftarrow{160 / .8} 160$$

$M-F$

$$x \xrightarrow{20\% \text{ off}} 160$$

$$x \xleftarrow{200 / 80} 160$$

$80\% \text{ of } x \rightarrow 160$

$$80\% \rightarrow 160$$

$$1\% \rightarrow 2$$

$$100\% \rightarrow 200$$

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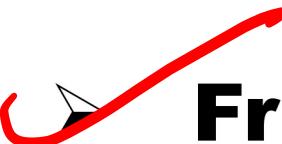
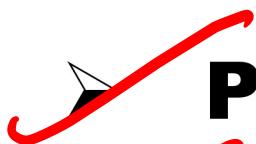
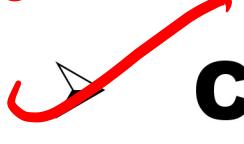
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Some important term related to percentage

-  **Fraction to percentage**
-  **Percentage to fraction**
-  **Change**
-  **To increase & Decrease a given number by given percent**
-  **Shortcut calculation in percentage**



- 1) Rajiv spends 40% of his salary on food, 20% on house rent, 10% on entertainment and 10% on conveyance. If his savings at the month end are ₹2,000, then his monthly salary is
- [ESE 2017, 2 MARKS]
- A) ₹6,000 B) ₹8,000 C) ₹10,000 D) ₹12,000

$$\begin{array}{l} \cancel{80\%} \\ \cancel{20\%} \rightarrow 200 \\ \cancel{10\%} \rightarrow 100 \\ \cancel{10\%} + 1000 \end{array}$$

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~~Q2)~~ A candidate appearing for an examination has to secure 40% marks to pass a paper. But he secured only 40 marks and failed by 20 marks. What are the maximum marks for the paper?

[VIZAG STEEL PLANT, 2015]

A) 100

B) 150

C) 180

D) 200

$$40 + 20 \rightarrow 40\%$$

$$40\% \rightarrow 60$$

$$2\% \rightarrow 3$$

$$100\% \rightarrow 150$$

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~~Q3)~~ In a party, 60% of the invited guests are male and 40% are female. If 80% of the invited guests attended the party and if all the invited female guests attended, what would be the ratio of males to females among the attendees in the party?

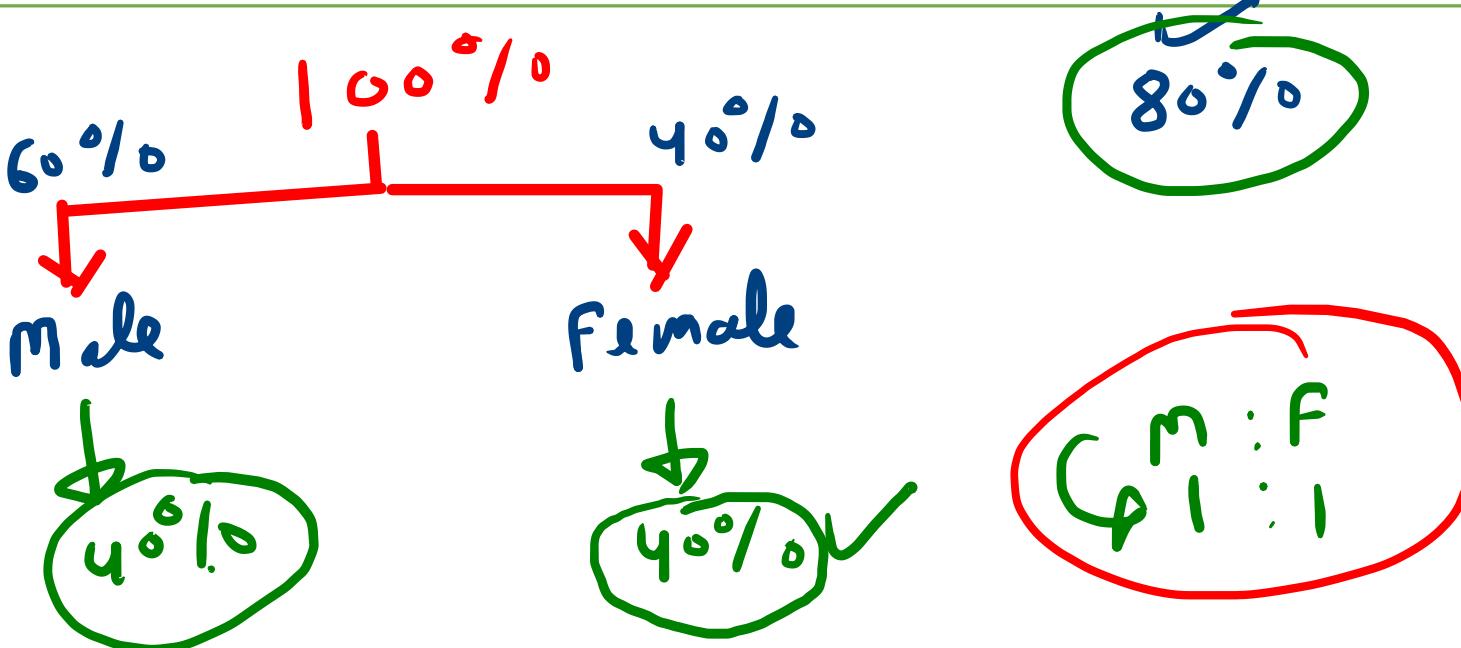
[GATE 2018, 2 MARKS (CS)]

A) 2:3

B) 1:1

C) 3:2

D) 2:1



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~~4)~~ The ratio of the number of boys and girls who participated in an examination is 4:3. The total percentage of candidates who passed the examination is 80 and the percentage of girls who passed is 90. The percentage of boys who passed is _____.

A) 90.00

B) 80.50

[GATE-2019]

C) 55.50

D) 72.50

$$\frac{B}{G} = \frac{4}{3}$$

$$B = 400$$

$$G = 300$$

$$\underline{B+G = 700}$$

S60

$$80\% - 20\%$$

$$\text{Girl} \rightarrow 90\% \checkmark \rightarrow 270$$

$$10\% \times \rightarrow 30$$

$$\frac{29}{40} \times 100$$

$$\approx 72.5\%$$

$$\text{Boy} \checkmark \rightarrow 560 - 270$$

$$= 290$$



5) In a country of 1400 million population, 70% own mobile phones. Among the mobile phone owners, only 294 million access the internet. Among these Internet users, only half buy goods from e-commerce portals. What is the percentage of these buyers in the country?

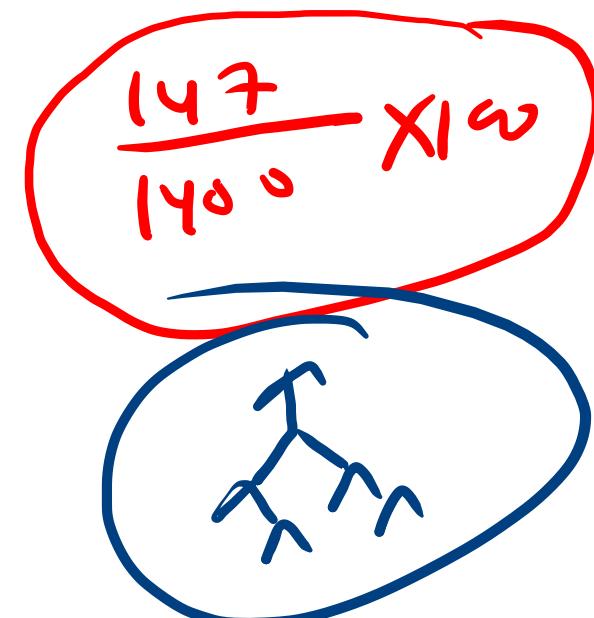
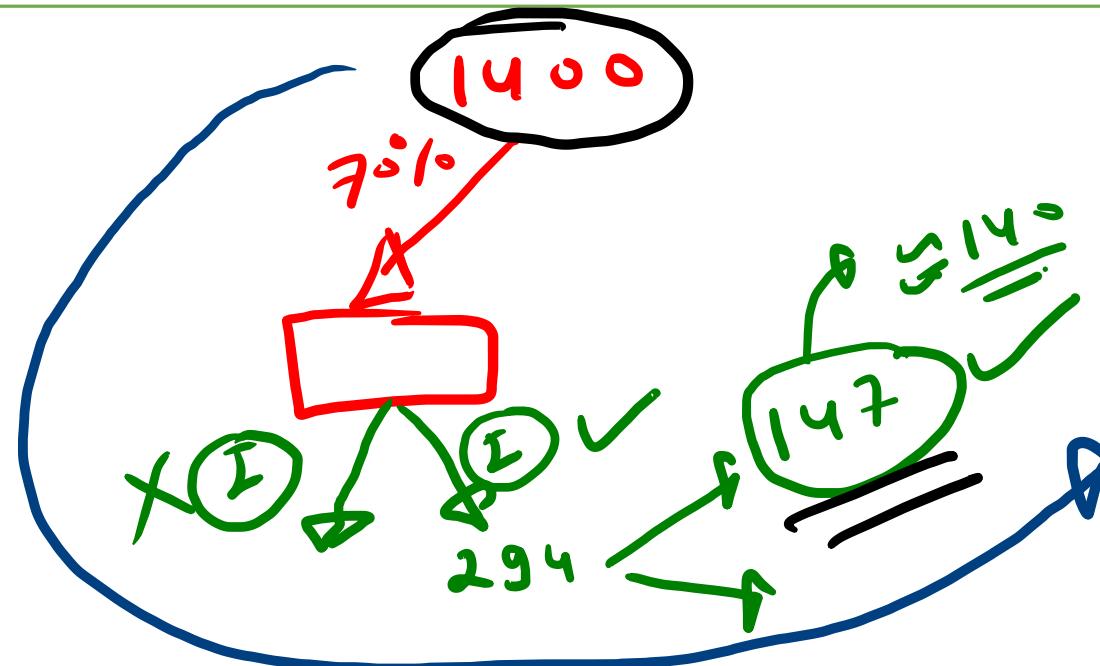
[GATE 2019]

A) 10.50

B) 14.70

C) 15.00

D) 50.00



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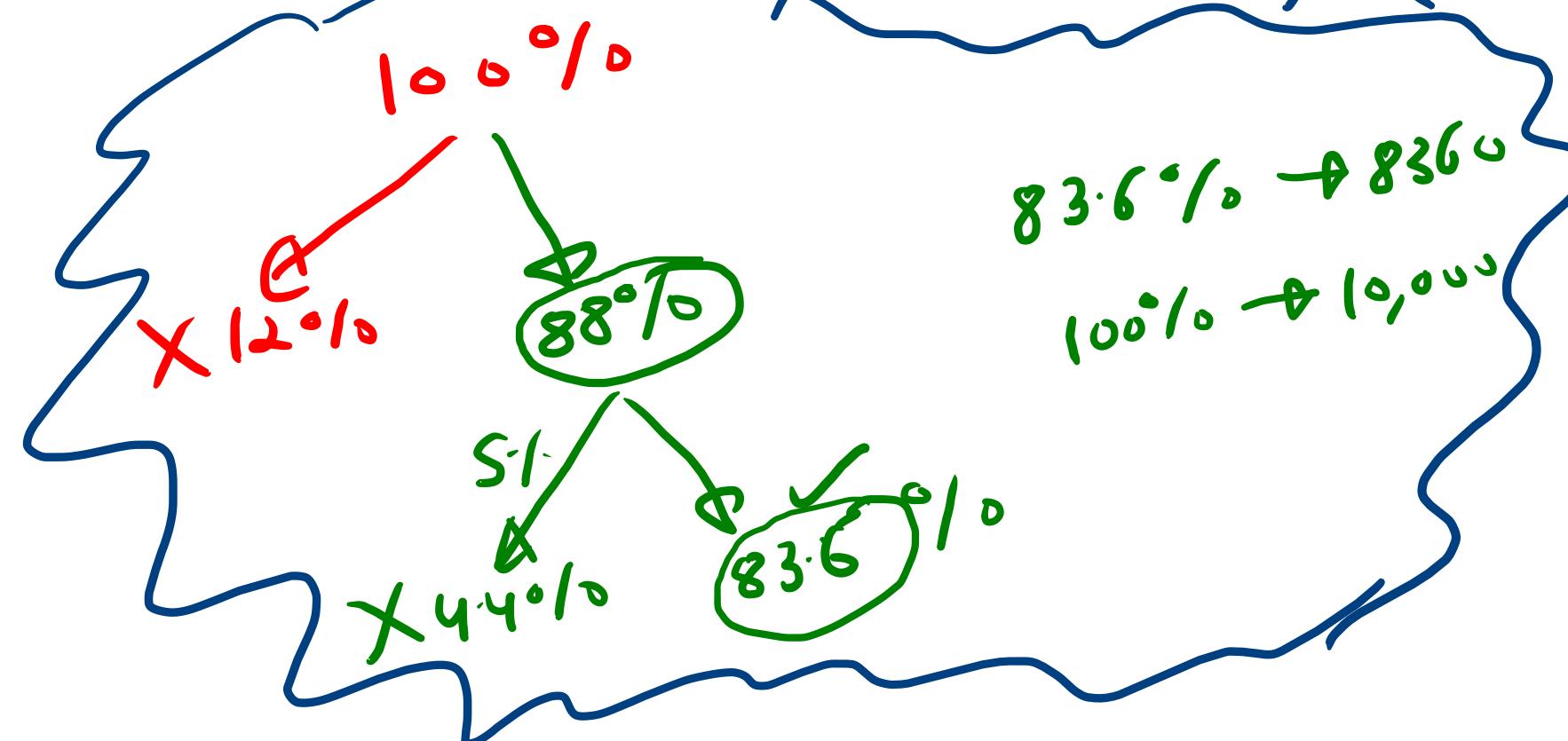
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- 6) A village lost 12% of its goats in a flood and 5% of remainder died from diseases. If the number left now is 8360 what was the original number before the flood?
- A) 1000 B) 10,000 C) 1,00,000 D) 8360



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Home Work Question

The ratio of the number of boys and girls in a college is 3 : 2. If 20% of boys and 25% of girls are adults, the percentage of those students who are not adults, is

- A) 58%
- B) 67.5%
- C) 78%
- D) 82.5%

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GATE

SG 4 1 n
SG 4 2 n
SG 10 n

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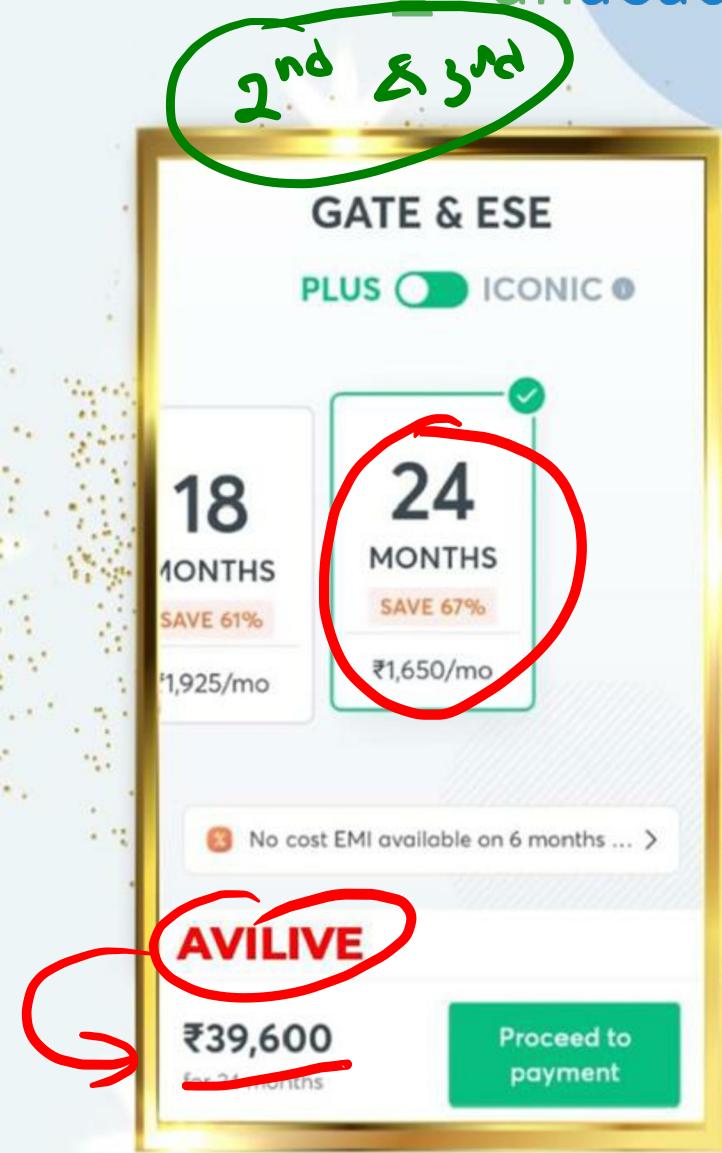
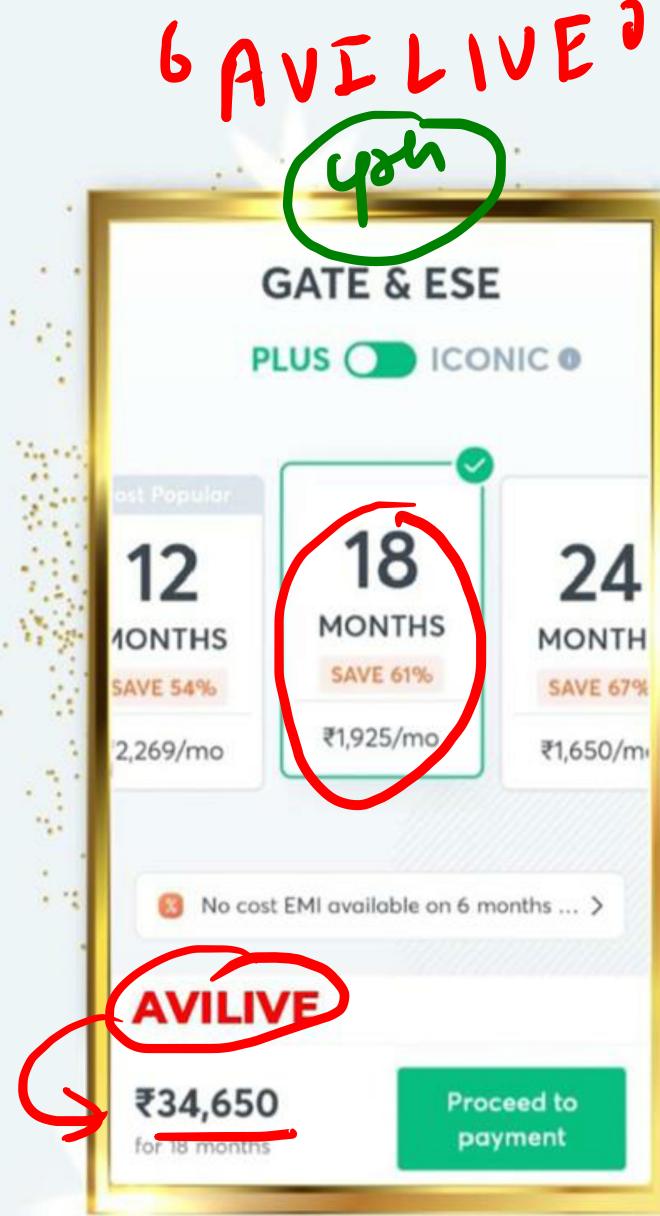
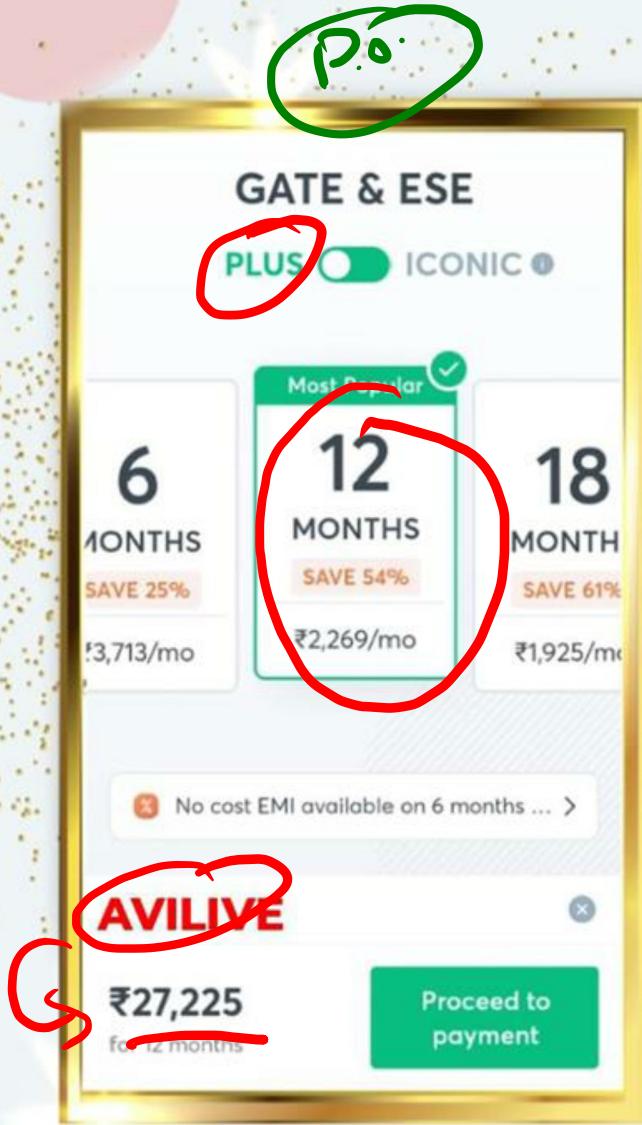
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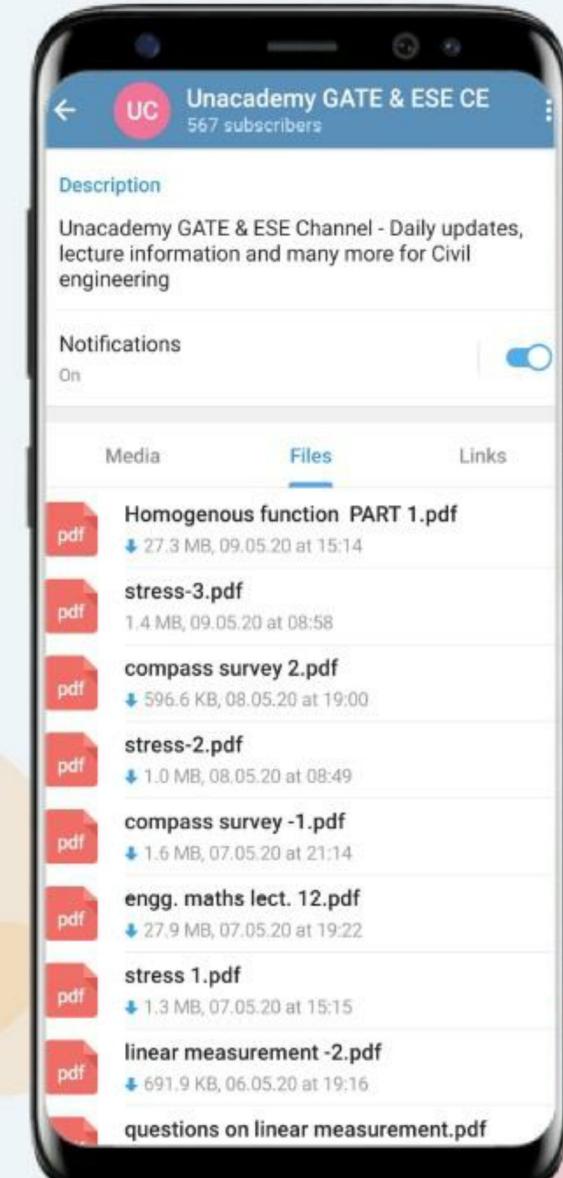
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