

MATHS SPECIAL



PRE + MAINS

LIVE CLASS (ONE TO ONE INTERACTION)

**REGISTRATION
OPEN**

BILINGUAL CONTENT

1 YEAR VALIDITY

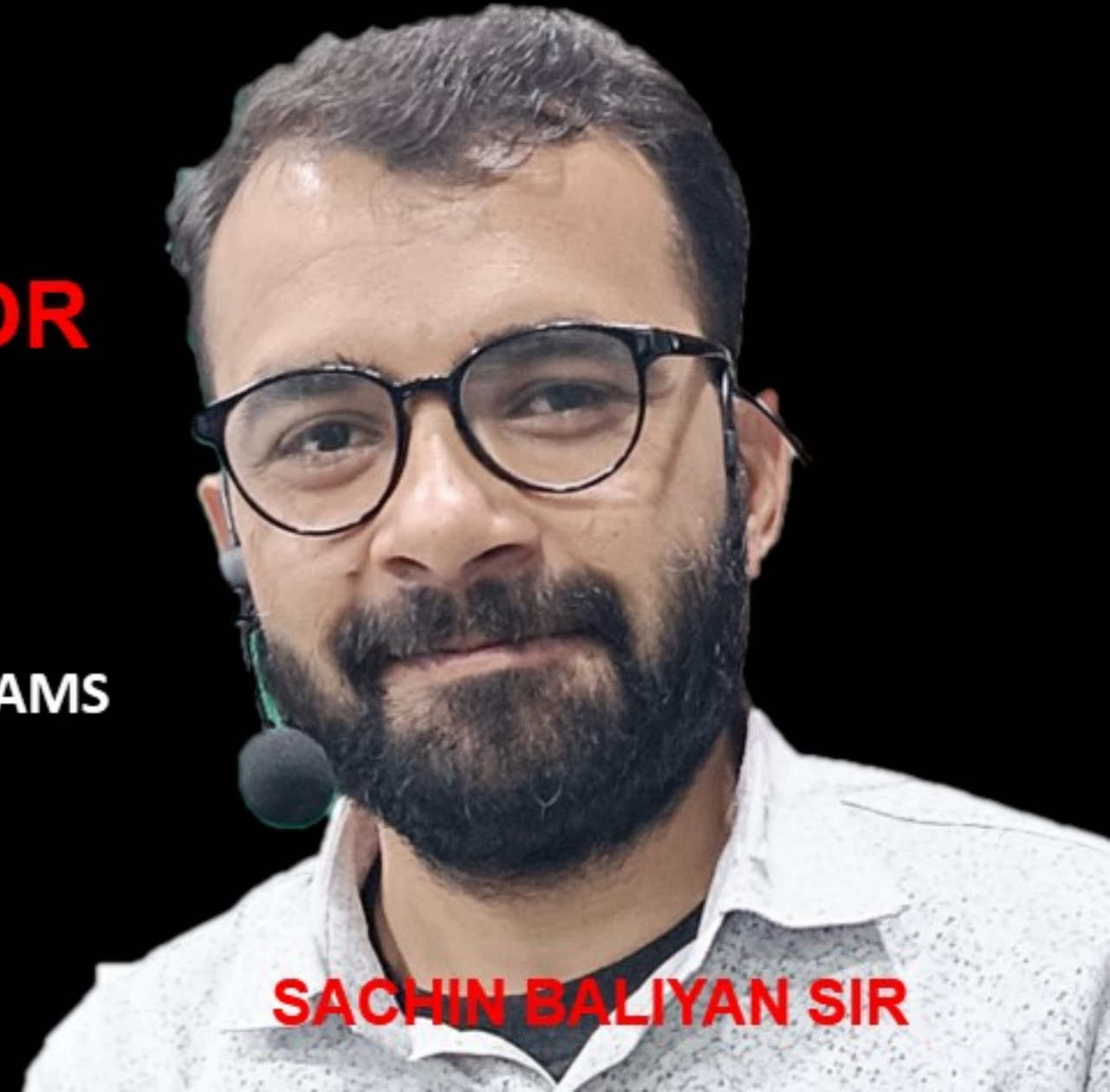
INCLUDES

- ☐ **LIVE Classes**
- ☐ **Result Oriented Approach**
- ☐ **PDF Notes**
- ☐ **Conceptual Clarity**

USEFUL FOR

- ☐ **SSC EXAMS**
- ☐ **BANK EXAMS**
- ☐ **CSAT**
- ☐ **STATE GOVT. EXAMS**

DOWNLOAD TAIYARI KARO APP TO JOIN THE BATCH



SACHIN BALIYAN SIR

MATHS SYLLABUS



ARITHMETIC:

(SSC/BANK/CUET/CSAT/STATE GOVT)

Time and Work
Pipe and Cistern

Percentage
Profit Loss and Discount
Compound Interest
Simple Interest

Average
Ratio and Proportion
Based of Ages
Partnership
Mixture and Alligation

Time Speed And Distance
Train
Race
Boat and Stream

BANK:

Number Series
Quadratic Equation
Simplification
Approximation

Data Interpretation

Mensuration

Permutation
Combination
Probability

SSC:

Number System
LCM + HCF

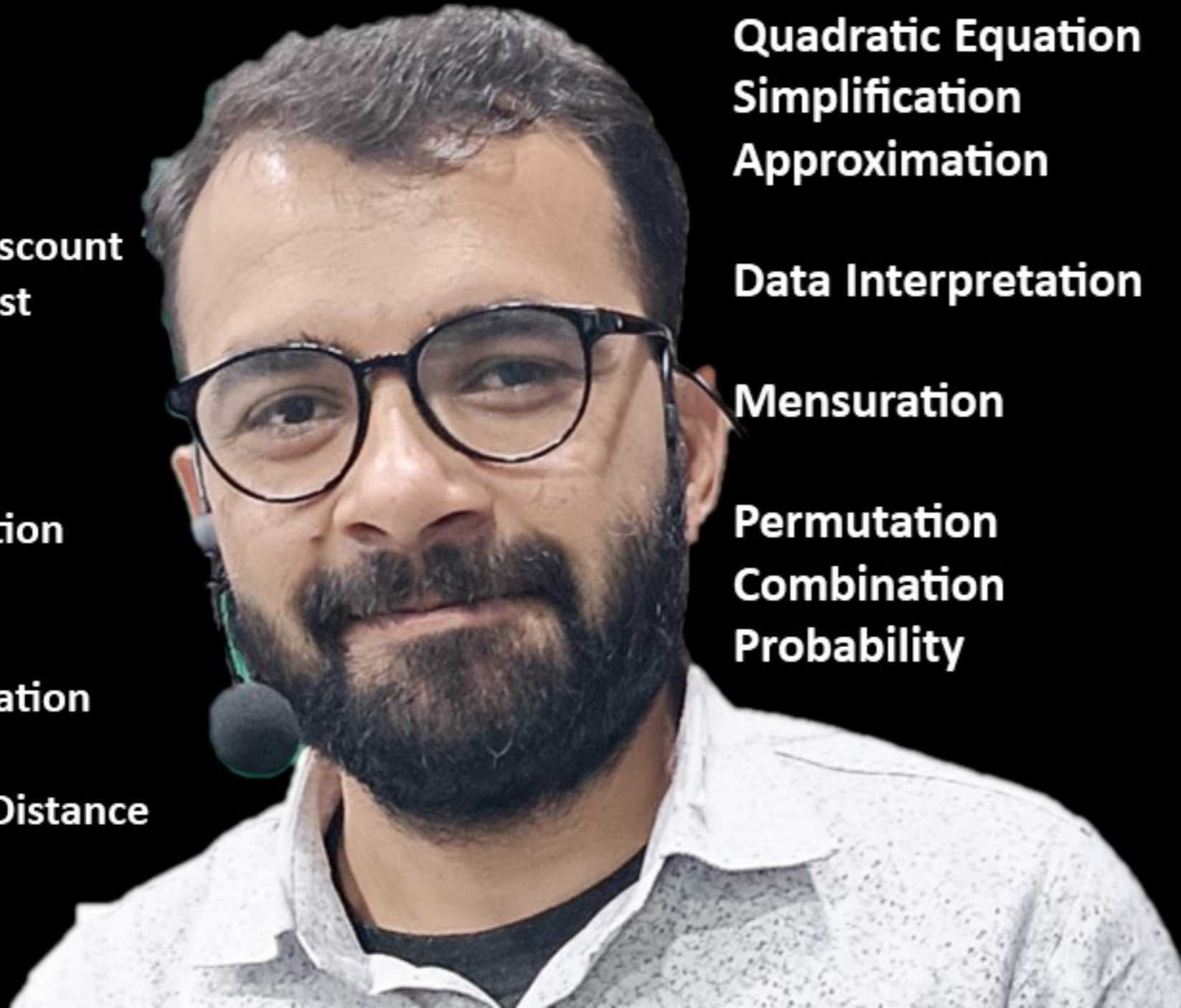
Surds
Indices
Algebra

Trigonometry
Height and Distance

Geometry

Mensuration-2D
Mensuration-3D

Co-ordinate Geometry



PERCENTAGE

CONVERSION FROM PERCENTAGE TO FRACTION

CONVERSION FROM FRACTION TO PERCENTAGE

Fraction To Percent

NO. OF QUESTIONS	CLASS NUMBER	CLASS DURATION
15 Questions	DAY - 2	1 HOURS



$\frac{x}{y}$ → Given (दिया है)
Compare

$$\begin{array}{r} A \text{ to } B \\ \hline 60 : 80 \\ \quad \quad \quad \nearrow 20 \end{array}$$

① \checkmark A is how much % less than B.

$$\boxed{\frac{20}{80} \times 100}$$

Ans

② B is how much % more than A.

$$\boxed{\frac{20}{60} \times 100 \%}$$



If 140% of A is equal to 450% of B then find-

यदि A का 140% B के 450% के बराबर है तो

i) A is how much % of B? A, B का कितना % है?

2. B is how much % more/less than A?

~~B, A से कितना % अधिक / कम है?~~

3. A is how much % more or less than B?

~~A, B से कितना % अधिक / कम है?~~

$$140\% \text{ of } A = 450\% \text{ of } B$$

$$\frac{A}{B} = \frac{45}{14}$$

31

iii

$$\frac{31}{14} \times 100$$

i

$$\frac{45}{14} \times 100$$

Ans

ii

$$\frac{31}{45} \times 100$$

PERCENTAGE – 2 (Fraction TO %)

MATHS WITH SACHIN BALIYAN SIR

If the height of tower A is $42\frac{6}{7}\%$ more than the height of tower B, then height of tower B is what percent less than the tower A? यदि टॉवर A की ऊँचाई, टॉवर B

की ऊँचाई से $42\frac{6}{7}\%$ अधिक है, तो B की ऊँचाई, टॉवर A से क्या प्रतिशत कम है?

- (a) 30% (b) 35% (c) 75% (d) 60%
(e) None of these

$$A \rightarrow +\frac{3}{7} \rightarrow B$$

$$\frac{A : B}{10 : 7}$$

$$\frac{3}{10} \times 100$$

PERCENTAGE – 2 (Fraction TO %)

MATHS WITH SACHIN BALIYAN SIR

If 50% of A is equal to 80% of B while it is also equal to 120% of C then find- यदि A का 50% B के 80% के बराबर है जबकि C के 120% के बराबर भी है तो ज्ञे

- A is how much % of B? A, B का कितना % है?
- B is how much % more/less than Sum of A & C together? B, A & C के योग से कितना % अधिक / कम है?
- Sum of A & C is how much % more/less than the sum of B and C? A & C का योग B और C के योग से कितना % अधिक / कम है?

- C is how much % more or less than the difference of A & B? C, A & B के अंतर से कितना % अधिक या कम है?

$$50\% \times A = 80\% \times B = 120\% \times C$$

$$5A = 8B = 12C$$

$$A : B : C = 8 \times 12 : 5 \times 12 : 5 \times 8$$

$$24 : 15 : 10$$

$$34$$

$$25$$

$$(i) \frac{9}{25} \times 100$$

$$11$$

$$\frac{19}{34} \times 100$$

$$\frac{24}{15} \times 100$$

$$19$$

PERCENTAGE – 2 (Fraction TO %)

MATHS WITH SACHIN BALIYAN SIR

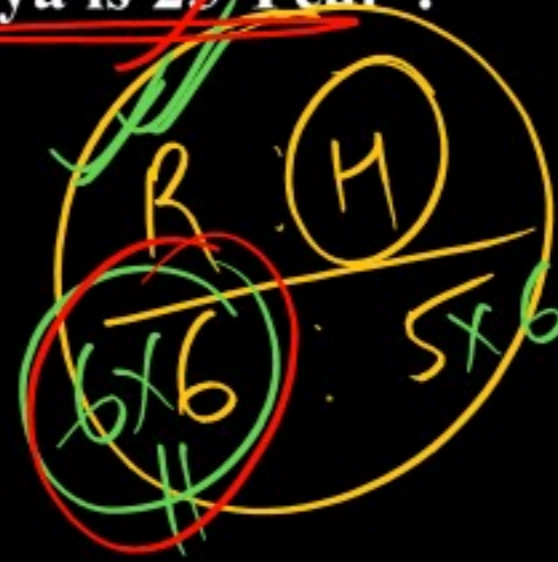


The age of Rampyari is 20% more than the age of Hulashi while the age of Angel Priya is $16\frac{2}{3}\%$ less than Hulashi. find - रामप्यारी की आयु हुलाशी की आयु से 20% अधिक है जबकि एंजेल प्रिया की आयु हुलाशी की आयु से $16\frac{2}{3}\%$ कम है। तब

I) Age of Angle Priya is how much per cent more or less than Rampyari?

II) Find the Age of Rampyari if the age of Angel Priya is 25 Year?

$\frac{1}{6} \leftarrow H$



$$\frac{11}{36} \times 100$$

$$11 \quad 36 \text{ yr}$$

PERCENTAGE – 2 (Fraction TO %)

MATHS WITH SACHIN BALIYAN SIR



A invested 20% less than B whose investment is $41\frac{2}{3}\%$ of A and C together then find the share of each if C invested Rs 2400 ? A ने B से 20% कम निवेश किया, जबकि B का निवेश A और C का $41\frac{2}{3}\%$ है, तो प्रत्येक का हिस्सा ज्ञात कीजिए यदि C ने 2400 रुपये का निवेश किया?

$$\frac{125}{2} \times \frac{1}{100} = \frac{5}{4}$$

$$-\frac{1}{5} \rightarrow B$$

$$A : B \\ 4 : 5$$

$$B \rightarrow \frac{5}{12} \rightarrow A+C \\ 6 \quad 8$$

$$A = 4 \times 300 \\ B = 5 \times 300$$

Ans

A	:	B	:	C
4	:	5	:	8

$\rightarrow \frac{2400}{8} = 300$

PERCENTAGE – 2 (Fraction TO %)

MATHS WITH SACHIN BALIYAN SIR

Two number are $8\frac{1}{3}\%$ and $12\frac{1}{2}\%$ less than the third number respectively.

Then find 1st number is what percent more than 2nd number? दो नंबर क्रमशः तीसरे

नंबर की तुलना में $8\frac{1}{3}\%$ और $12\frac{1}{2}\%$ कम हैं। फिर ज्ञात करें कि पहली संख्या दूसरी संख्या से कितने प्रतिशत अधिक है?

(a) $16\frac{2}{3}\%$

(b) $14\frac{2}{7}\%$

(c) $4\frac{1}{6}\%$

(d) $4\frac{16}{21}\%$

(e) None of these

① $a = 8\frac{1}{3}\% \text{ of } c$
 $a = \frac{8\frac{1}{3}}{100} \times c$
 $a = \frac{25}{3} \times \frac{1}{100} \times c$
 $a = \frac{1}{12} \times c$
 $a : c = 1 : 12$
 $2 \times 11 : 12 \times 2$
 $22 : 24$

② $b = 12\frac{1}{2}\% \text{ of } c$
 $b = \frac{12\frac{1}{2}}{100} \times c$
 $b = \frac{25}{8} \times \frac{1}{100} \times c$
 $b = \frac{1}{8} \times c$
 $b : c = 1 : 8$
 $3 \times 7 : 8 \times 3$
 $21 : 24$

$\frac{1}{21} \times 100$
 Ans



Two number are 32% and 20% less than the third number.

Then 1st number is what percent of 2nd

number? तीसरे नंबर की तुलना में दो नंबर 32% और 20% कम हैं। कि पहली संख्या दूसरी संख्या का किना प्रतिशत है?

(a) 80% (b) 82.5% (c) 85% (d) 87.5%

(e) None of these