



RRB GROUP D BATCH 2025



MATHS

LIVE



BY – P.K SIR



RRB GROUP D - 2025



**General Science
Current Affairs & Static GK**

BY - KHAN SIR



MATHS

BY - PK SIR



REASONING

BY - KARTIK SIR



BIOLOGY

BY - AMRITA MA'AM



PHYSICS & CHEMISTRY

BY - GYAN SIR



**CURRENT AFFAIRS &
STATIC GK**

BY - SHIVAM TIWARI SIR



GEOGRAPHY

BY - ABHISHEK SIR



HISTORY

BY - ANJALI MA'AM



POLITY

BY - SHUBHAM TRIPATHI SIR



ECONOMICS

BY - SUKESH SIR

By – Khan Sir & TEAM



Ratio and proportion (अनुपात तथा समानुपात)

$$\begin{array}{cc} A & B \\ \hline 350\text{₹} & : & 250\text{₹} \end{array}$$

$$7 : 5$$

→ Standard ratio (मानक अनुपात)

① HCF → 1

② Integer (पूर्णांक)

$$\begin{array}{cc} \cancel{350} & : & \cancel{250} \\ 7 & : & 5 \end{array}$$

$$\begin{array}{cc} A & : & B \\ \hline 63 & : & 56 \\ 9 & : & 8 \end{array}$$

$$\begin{array}{cc} A : B \\ \hline 56 : 72 \\ 7 : 9 \end{array}$$





$$A : B$$

$$\left[\frac{3}{4} : \frac{7}{5} \right] \times 20$$

$$\frac{3}{4} \times \frac{5}{5} : \frac{7}{5} \times \frac{4}{4}$$

$$15 : 28$$

$\frac{x}{y} \rightarrow$ अंश
 $\frac{x}{y} \rightarrow$ हर

$$A : B$$

$$\frac{3}{4} : \frac{7}{5}$$

$$15 : 28$$

$$\# A : B : C$$

$$\left[\frac{2}{3} : \frac{5}{4} : \frac{3}{5} \right] \times 60$$

$$2 \times 20 : 5 \times 15 : 3 \times 12$$

$$40 : 75 : 36$$



concept-1

$$\textcircled{i} \quad 7A = 9B$$

$$\begin{array}{cc} A & : & B \\ 9 & : & 7 \end{array}$$

$$\textcircled{ii} \quad \frac{4}{20}A = \frac{9}{45}B$$

$$\begin{array}{cc} A & : & B \\ 9 & : & 4 \end{array}$$

concept-2

$$\textcircled{i} \quad 2A = 3B = 5C \xrightarrow{\text{LCM}} \boxed{30}$$

$$\begin{array}{ccc} A & : & B & : & C \\ 15 & : & 10 & : & 6 \end{array}$$

II - method (Best method)

$$2A = 3B = 5C$$

$$\begin{array}{ccc} A & : & B & : & C \\ 15 & : & 10 & : & 6 \end{array}$$





$$\textcircled{\text{ii}} \quad 3A = 4B = 7C$$

$$A : B : C$$

$$28 : 21 : 12$$

$$\textcircled{\text{iii}} \quad 2A = 3B = 5C = 7D$$

$$A : B : C : D$$

$$3 \times 5 \times 7 : 2 \times 5 \times 7 : 2 \times 3 \times 7 : 2 \times 3 \times 5$$

$$105 : 70 : 42 : 30$$

concept-3

$$\frac{A}{7} = \frac{B}{8} = \frac{C}{10}$$

$$A : B : C$$

$$7 : 8 : 10$$

$$\# \frac{A}{3} = \frac{B}{7} = \frac{C}{9} = \frac{D}{18}$$

$$A : B : C : D$$

$$3 : 7 : 9 : 18$$



concept-4

$$\textcircled{i} \quad \frac{\cancel{2}A}{\cancel{5 \times 20}_{15}} = \frac{\cancel{3}B}{\cancel{7 \times 20}_{10}} = \frac{\cancel{5}C}{\cancel{9 \times 30}_6}$$

$$\frac{A}{75} = \frac{B}{70} = \frac{C}{54}$$

$$A : B : C \\ 75 : 70 : 54$$

H.w / R.w

$$\textcircled{i} \quad \frac{3A}{4} = \frac{4B}{5} = \frac{6C}{17}$$

$$\textcircled{ii} \quad \frac{2A}{7} = \frac{4B}{9} = \frac{5C}{13}$$

$$\boxed{A : B : C} = ?$$











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