



RRB GROUP D BATCH 2025



MATHS

LIVE



BY – P.K SIR



$$\# \frac{\cancel{3}A}{\cancel{4} \times \cancel{12}} = \frac{\cancel{4}B}{\cancel{7} \times \cancel{12}} = \frac{\cancel{6}C}{\cancel{17} \times \cancel{12}}$$

$$\frac{A}{4} = \frac{B}{3} = \frac{C}{2}$$

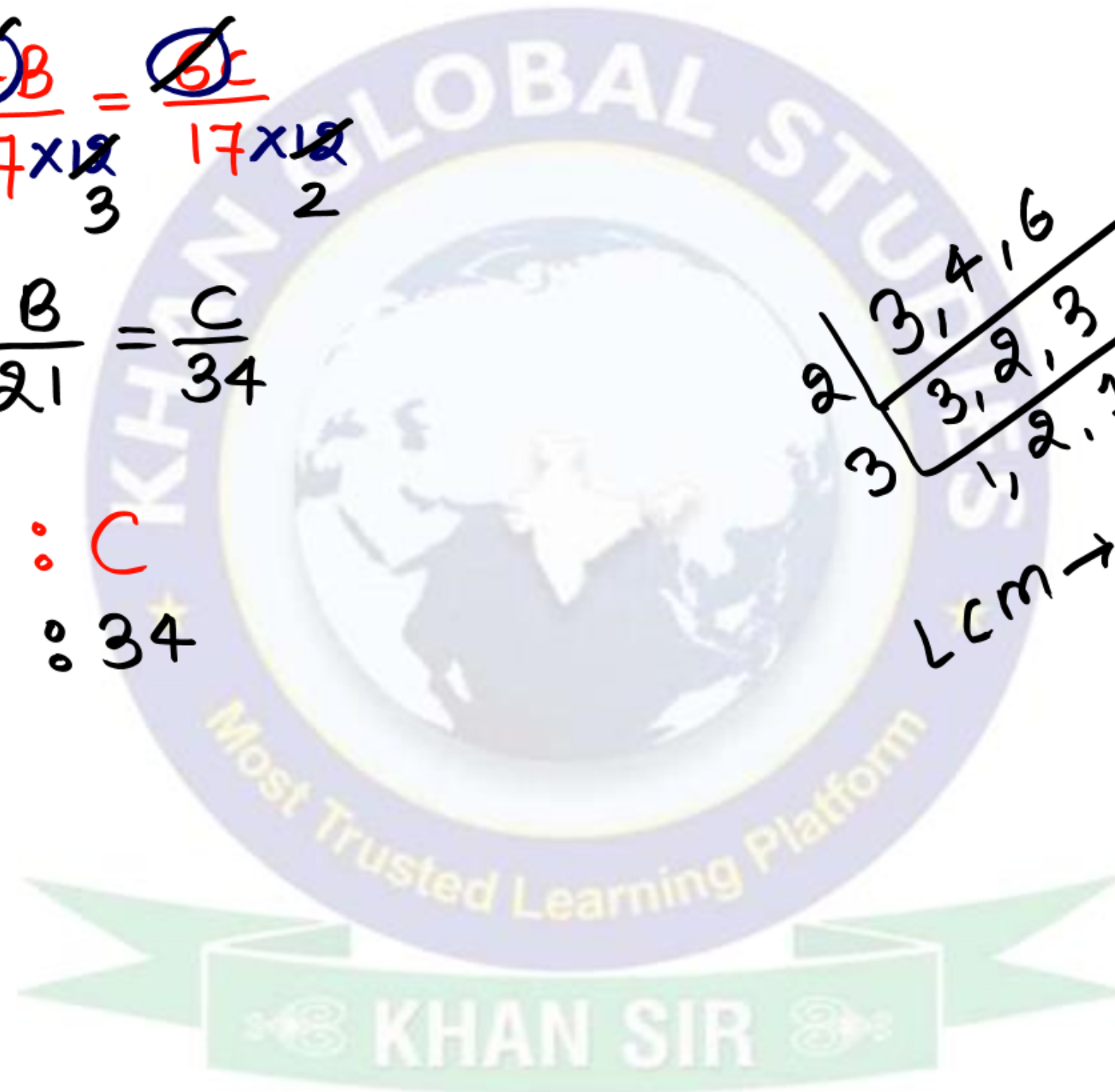
$$\frac{A}{16} = \frac{B}{21} = \frac{C}{34}$$

$$A : B : C$$

$$16 : 21 : 34$$

$$\begin{array}{r} 2 \overline{) 3, 4, 6} \\ 3 \overline{) 3, 2, 3} \\ 1, 2, 1 \end{array}$$

$$LCM \rightarrow 2 \times 3 \times 2 = 12$$





$$3, 4, 6 \xrightarrow{\text{LCM}} 12$$

$$4, 6, 5 \xrightarrow{\text{LCM}} 60$$

$$\# \quad \frac{\cancel{3}A}{\cancel{4} \times \cancel{12}_4} = \frac{\cancel{4}B}{\cancel{7} \times \cancel{12}_3} = \frac{\cancel{6}C}{\cancel{17} \times \cancel{12}_2}$$

$$\# \quad \frac{\cancel{4}A}{\cancel{5} \times \cancel{60}_{15}} = \frac{\cancel{6}B}{\cancel{7} \times \cancel{60}_{10}} = \frac{\cancel{5}C}{\cancel{19} \times \cancel{60}_{12}}$$

$$\frac{A}{16} = \frac{B}{21} = \frac{C}{34}$$

$$A : B : C \\ 16 : 21 : 34$$

$$A : B : C \\ 75 : 70 : 228$$

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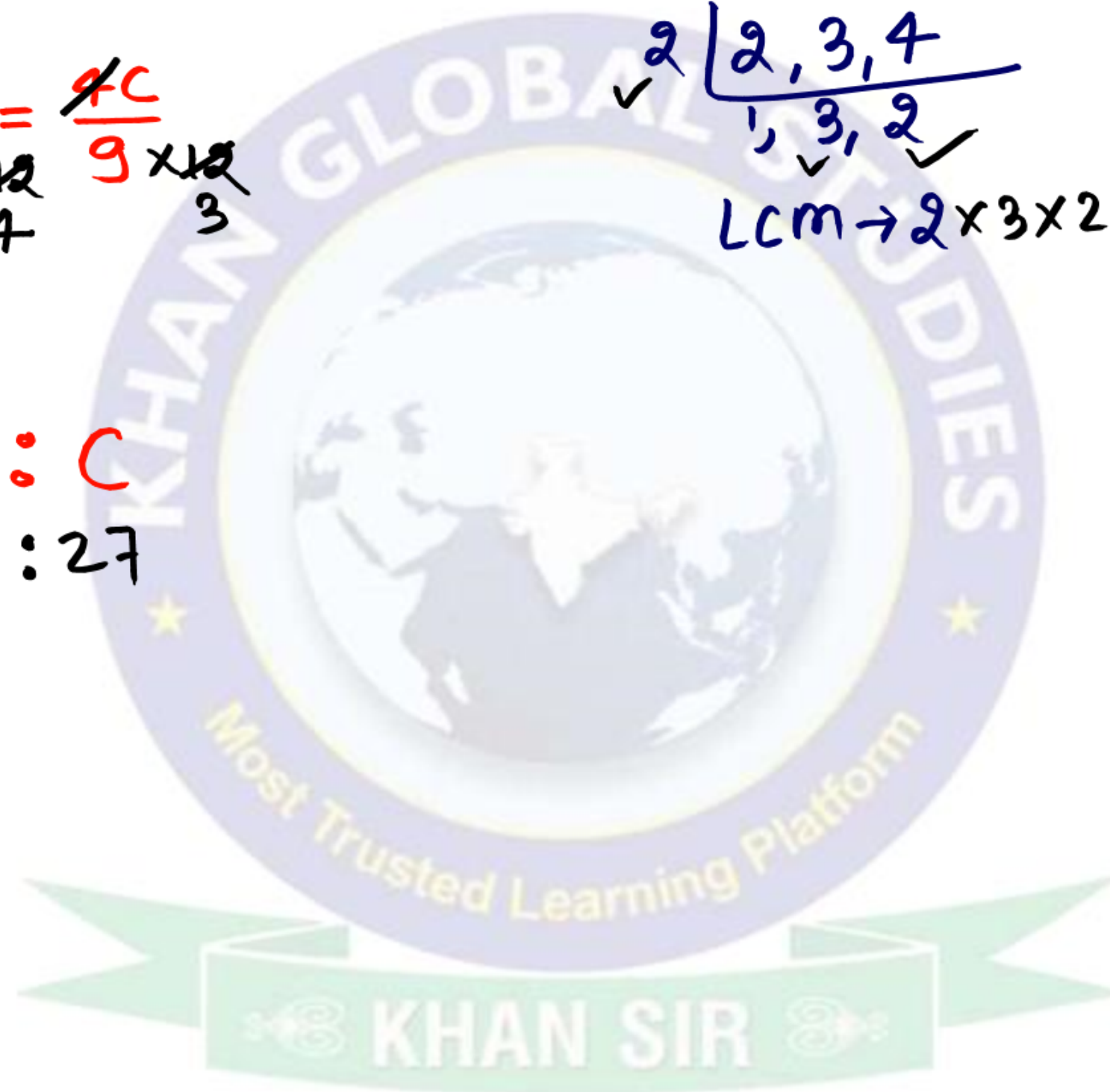


$$\# \quad \frac{\cancel{2}A}{\cancel{7} \times \cancel{18}_6} = \frac{\cancel{3}B}{\cancel{8} \times \cancel{12}_4} = \frac{\cancel{4}C}{\cancel{9} \times \cancel{12}_3}$$

$$\begin{array}{r} \checkmark 2 \overline{) 2, 3, 4} \\ \underline{1, 3, 2} \end{array}$$

$$\text{LCM} \rightarrow 2 \times 3 \times 2 = 12$$

$$A : B : C \\ 42 : 32 : 27$$



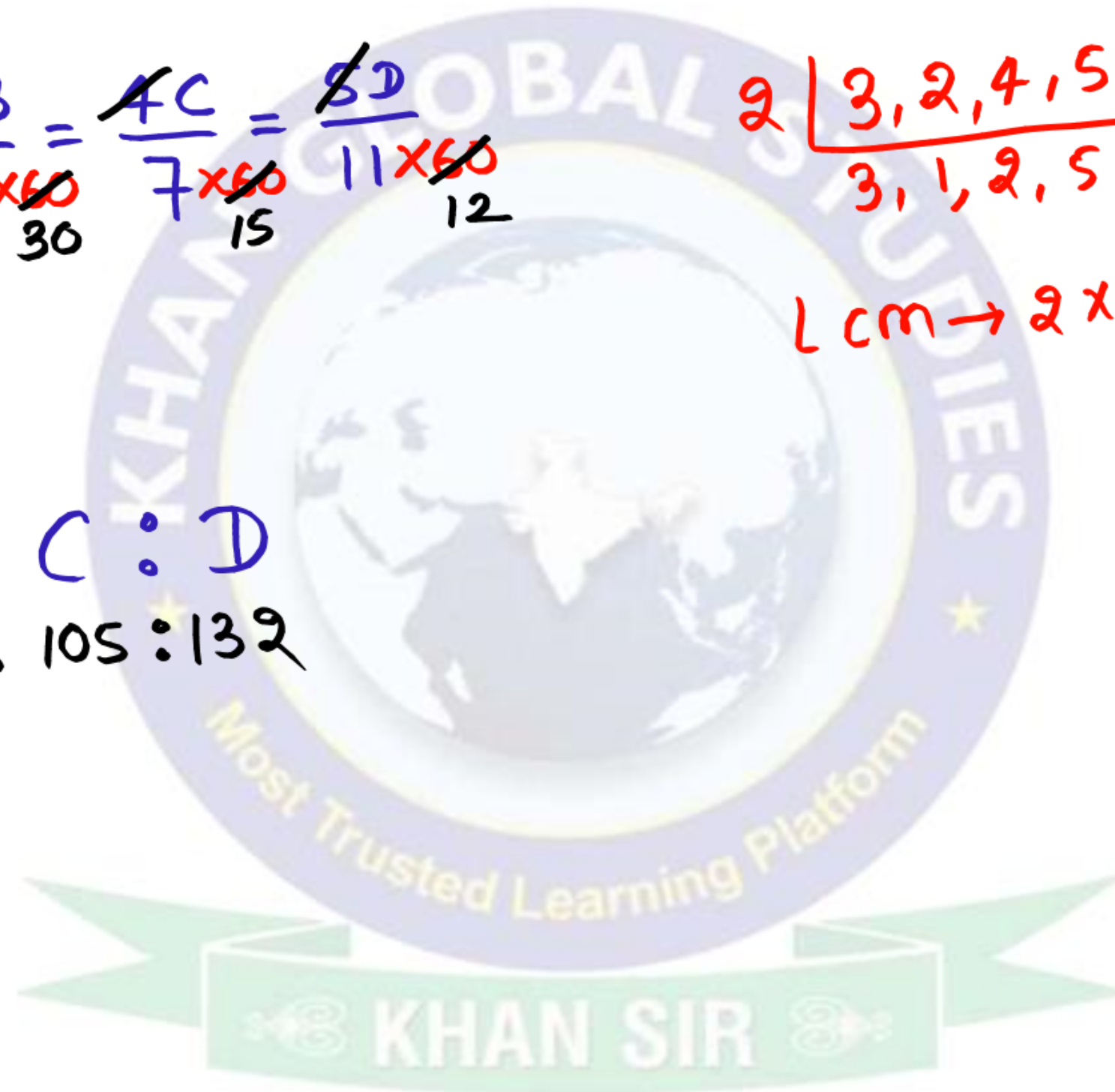


$$\# \quad \frac{\cancel{3}A}{4 \times \cancel{60}_{20}} = \frac{\cancel{2}B}{5 \times \cancel{60}_{30}} = \frac{\cancel{4}C}{7 \times \cancel{60}_{15}} = \frac{\cancel{8}D}{11 \times \cancel{60}_{12}}$$

$$2 \overline{) 3, 2, 4, 5} \\ 3, 1, 2, 5$$

$$L\text{ cm} \rightarrow 2 \times 3 \times 2 \times 5 = 60$$

$$A : B : C : D \\ 80 : 150 : 105 : 132$$





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

$$(3 : 4) \times 5 \quad (5 : 7) \times 4$$

$$15 : 20 : 28$$

M-IBalancing method

$$A : B : C$$

$$15 : 20 : 28$$

$$\# \quad A : \boxed{B} : \boxed{C}$$

$$(2 : 3) \times 7 \quad (7 : 8) \times 3$$

$$14 : 21 : 24$$

$$A : B : C$$

$$14 : 21 : 24$$

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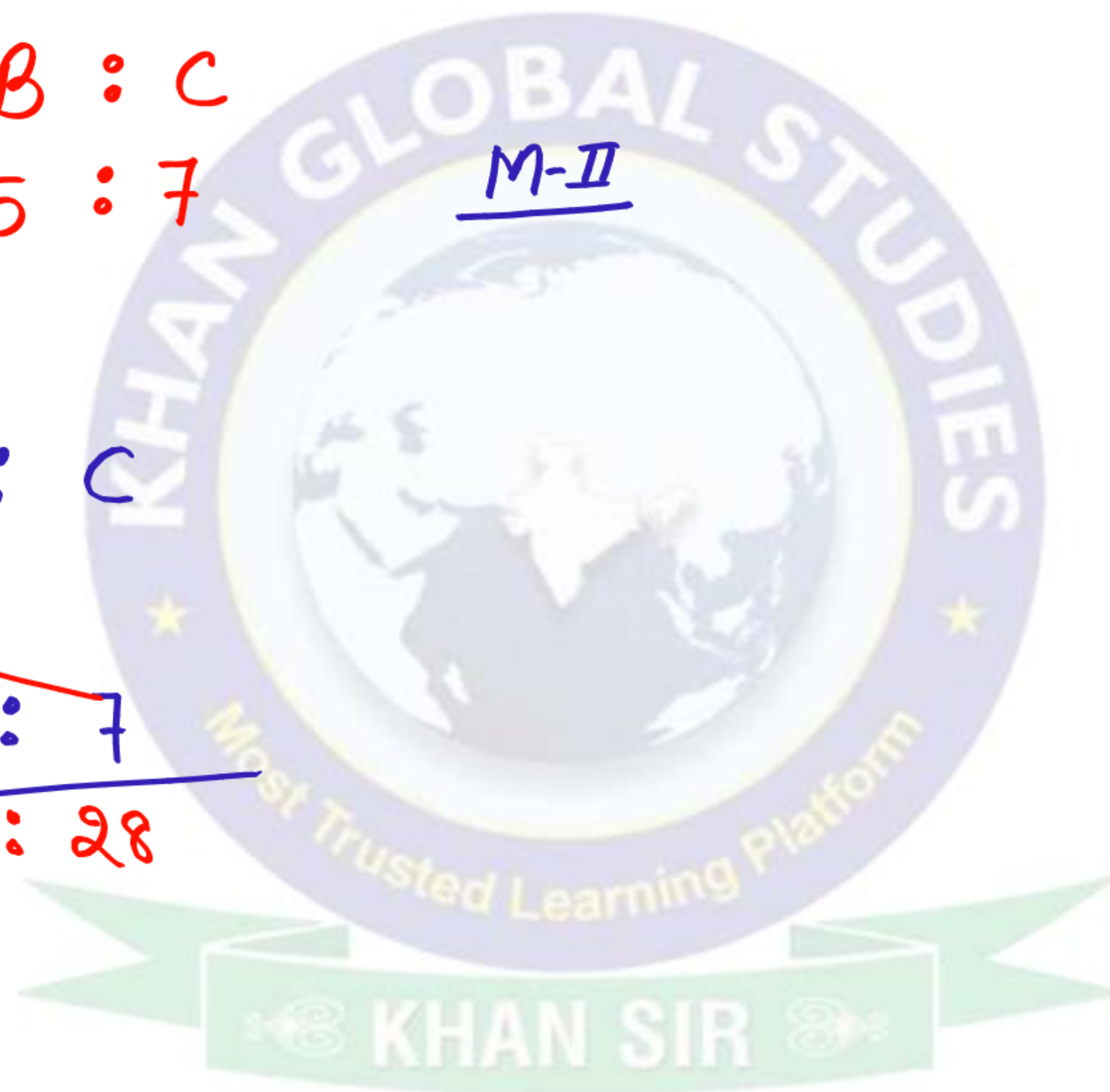
$$\begin{array}{cc} A : B & B : C \\ 3 : 4 & 5 : 7 \end{array}$$

M-II

$$A : B : C$$

$$3 : 4 : 5 : 7$$

$$15 : 20 : 28$$





$$\begin{array}{l} A : B \\ 3 : 4 \end{array} \quad \begin{array}{l} B : C \\ 5 : 7 \end{array}$$

M-III

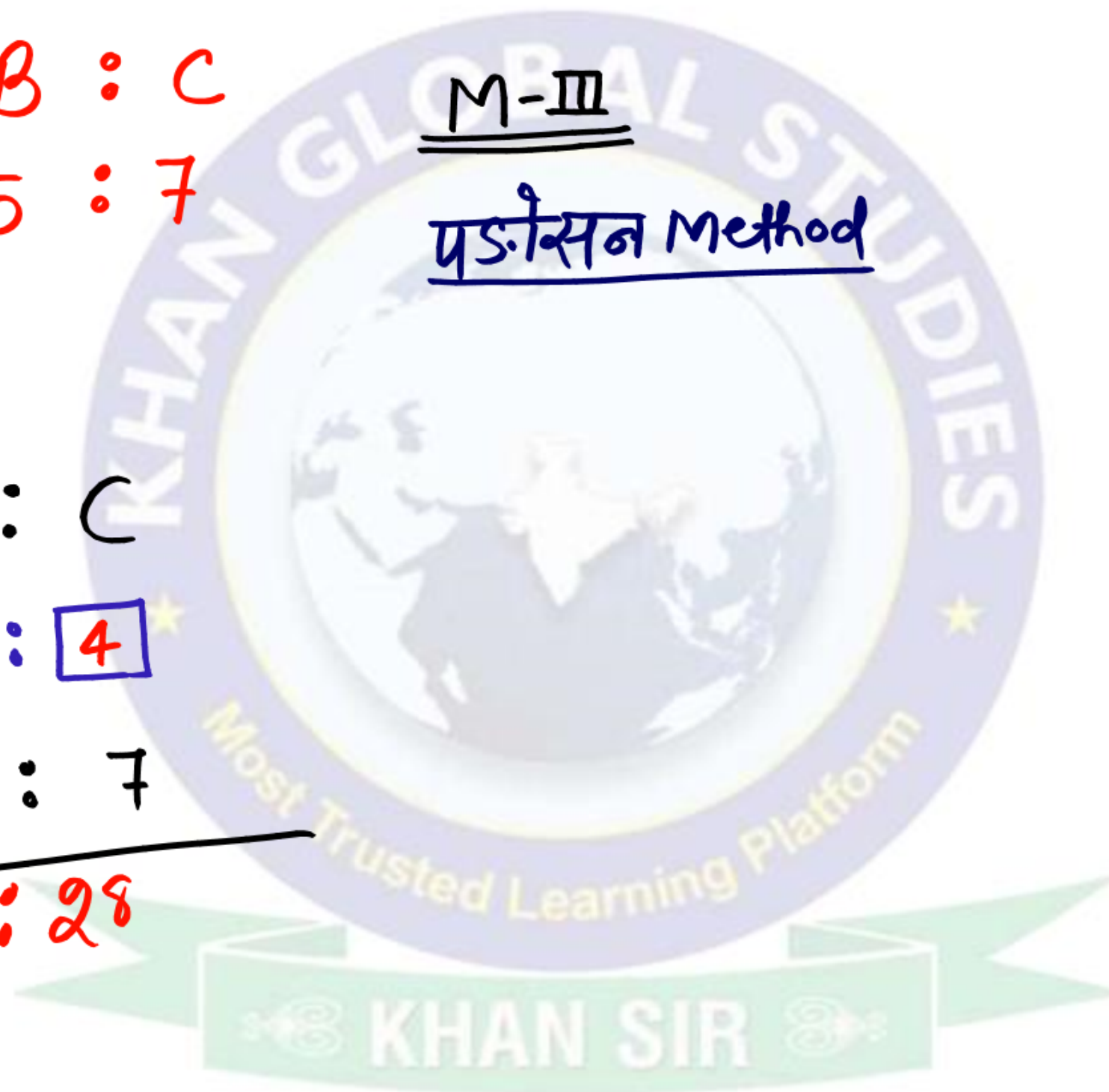
प्रसारण Method

$$A : B : C$$

$$3 : 4 : \boxed{4}$$

$$\boxed{5} : 5 : 7$$

$$15 : 20 : 28$$





$$A : B \quad B : C$$

$$3 : 4 \quad 5 : 7$$

M-IV

(ratio method)

The Best Method

$$A : B = \cancel{3} : 4 \checkmark$$

$$B : C = \cancel{5} : 7 \checkmark$$

$$A : B : C$$

$$15 : 20 : 28$$

$$\# A : B = \cancel{4} : 7 \checkmark$$

$$B : C = \cancel{3} : 8 \checkmark$$

$$A : B : C$$

$$12 : 21 : 56$$

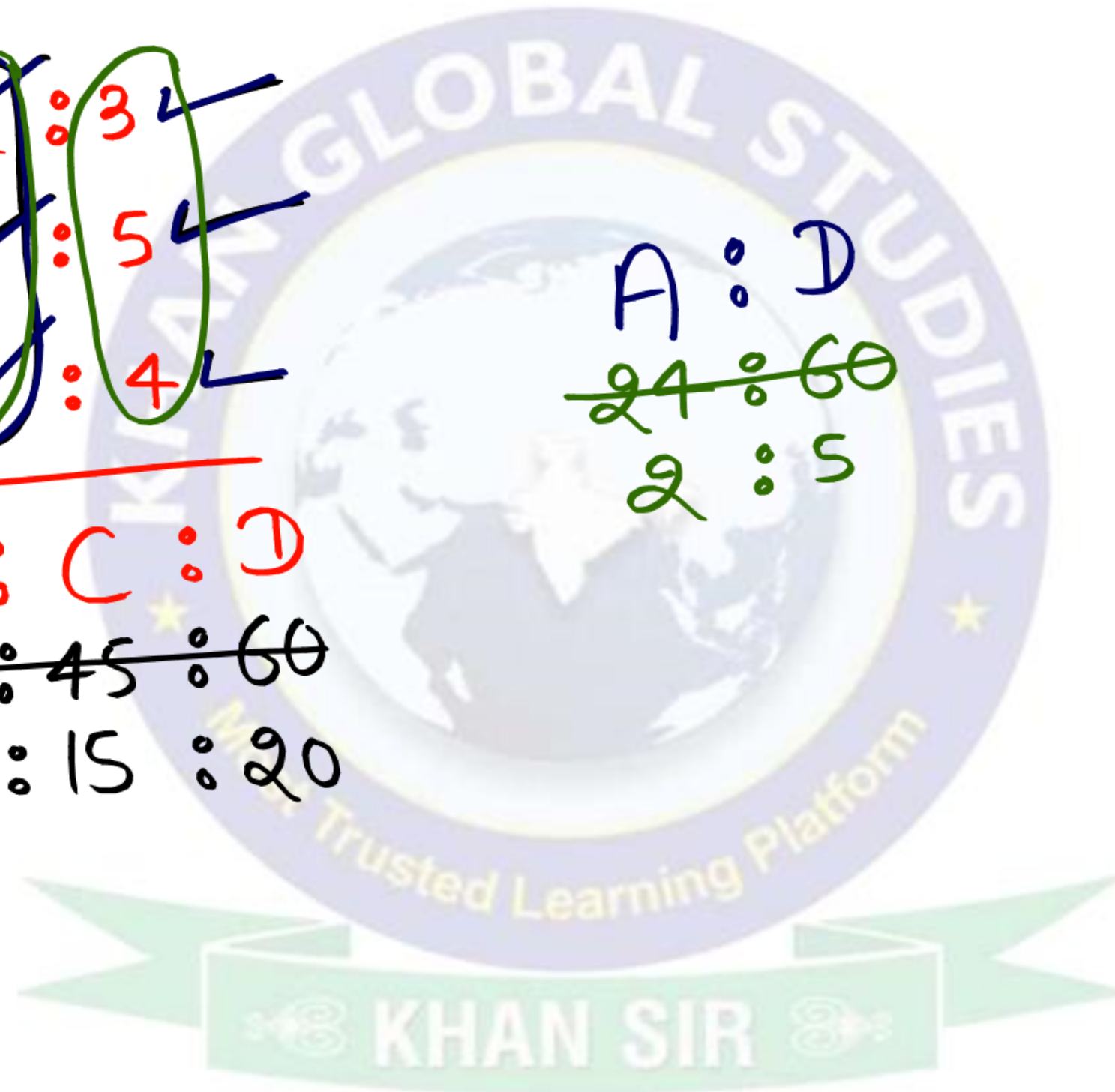




$A : B = 2 : 3$
 $B : C = 4 : 5$
 $C : D = 3 : 4$

$$\begin{array}{l} A : D \\ \hline 24 : 60 \\ 2 : 5 \end{array}$$

$$\begin{array}{l} A : B : C : D \\ \hline 24 : 36 : 45 : 60 \\ 8 : 12 : 15 : 20 \end{array}$$

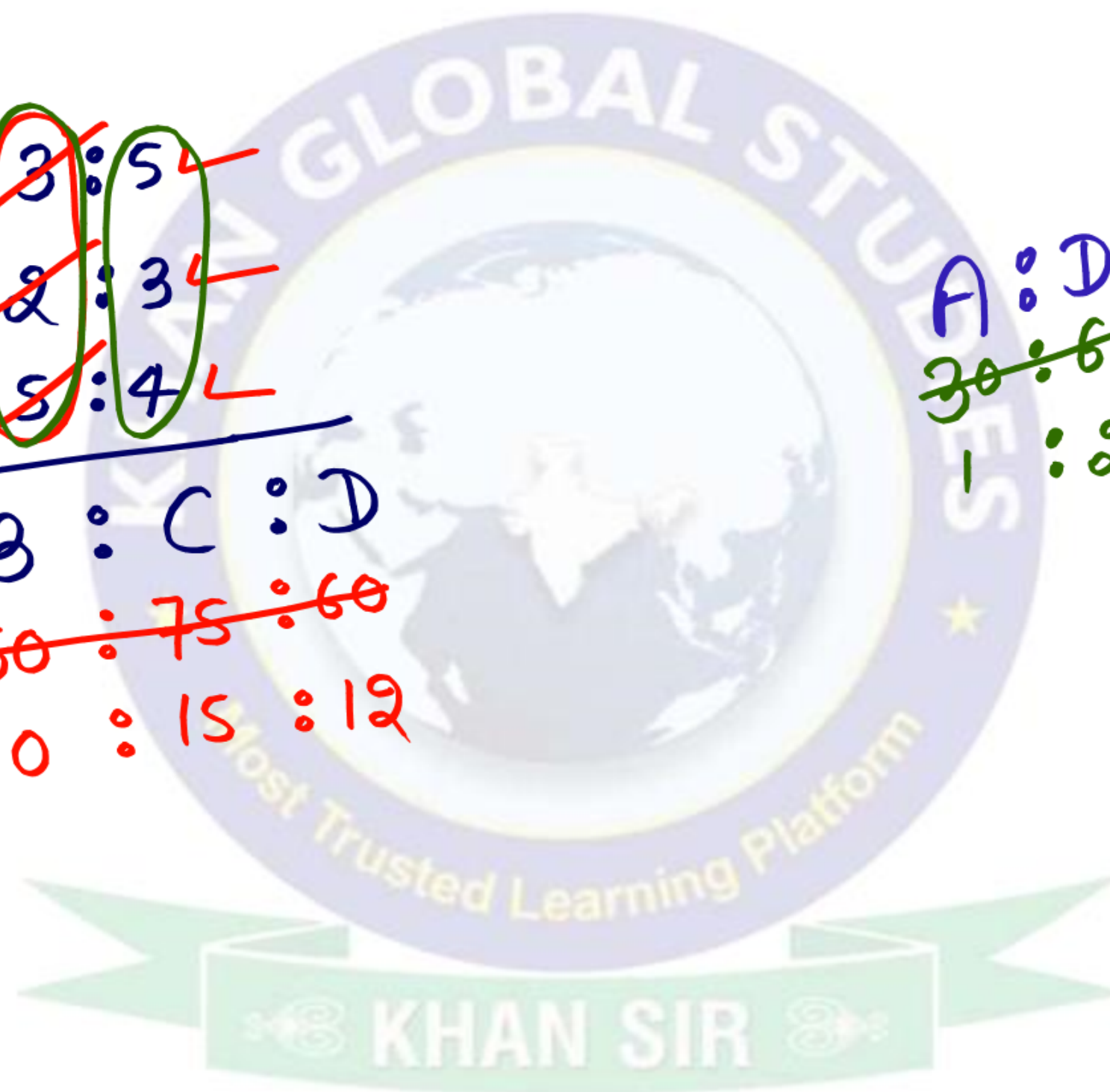




$$\begin{aligned}
 A:B &= 3:5 \\
 B:C &= 2:3 \\
 C:D &= 5:4
 \end{aligned}$$

$$\begin{array}{ccccccc}
 A & : & B & : & C & : & D \\
 \hline
 30 & : & 50 & : & 75 & : & 60 \\
 6 & : & 10 & : & 15 & : & 12
 \end{array}$$

$$\begin{aligned}
 A:D & \\
 30:60 & \\
 1:2 &
 \end{aligned}$$





$$\begin{aligned} A : B &= 3 : 4 \\ B : C &= 2 : 1 \\ C : D &= 5 : 2 \\ D : E &= 4 : 5 \end{aligned}$$

$$\begin{aligned} A : B : C : D : E \\ \hline 120 : 160 : 80 : 32 : 40 \\ 15 : 20 : 10 : 4 : 5 \end{aligned}$$

$$\begin{aligned} A : E \\ \hline 120 : 40 \\ 3 : 1 \end{aligned}$$





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