— RATIO —

Q: 7800 ₹ divided into 3 Ratio A : B : C, 6 : 4 : 3. find how much distributed each of them.

A	:	B	:	C	total
6	:	4	:	3	= 13 — 7800
					1 — $\frac{7800}{13}$ = 600

× 600 × 600 × 600

3600 : 2400 : 1800

Q: 900 I divide into 3 Ratio. find how much get 'B'.

A	:	B	:	C	
7	:	5	:	6	= 18 — 900
					1 — $\frac{900}{18}$ = 50

× 50

250

Ans

Q:-

A : B :: B : C

4 : 3 :: 5 : 7

↑ make equal ↑

4×5 : 3×5 :: 3×5 : 3×7

20 : 15 :: 15 : 21

A : B : C = **20 : 15 : 21** Ans

Q:- A : B → 3 : 5

B : C → 4 : 7

C : D → 2 : 3

A : B : C : D

(3×4×2) : (5×4×2) : (5×7×2) : (5×7×3)

24 : 40 : 70 : 105 Ans

↓ ↓ ↓ ↓

3 : 5	3 : 5	3 : 5	3 : 5
4 : 7	4 : 7	4 : 7	4 : 7
2 : 3	2 : 3	2 : 3	2 : 3

Q:- A : B 2 : 3

B : C 4 : 5

C : D 2 : 1

D : E 3 : 2

A : B : C : D : E

(2×4×2×3) : (3×4×2×3) : (3×5×2×3) : (3×5×1×3) : (3×5×1×2)

~~48~~ : ~~72~~ : ~~90~~ : ~~45~~ : ~~30~~

16 : 24 : 30 : 15 : 10 Ans

Q:- The Ratio of fare 1st, 2nd, 3rd class in Train are 20 : 13 : 3 & the ratio of no. of Passanger travel 4 : 5 : 20. If the total Earning from all the classes are 24600 and find earn from 3rd class.

1st : 2nd : 3rd.

20 : 13 : 3 = 36

4 : 5 : 20 = 29

$\frac{4}{80}$: $\frac{5}{65}$: $\frac{20}{60}$

16 : 13 : 12 = 41

× 600

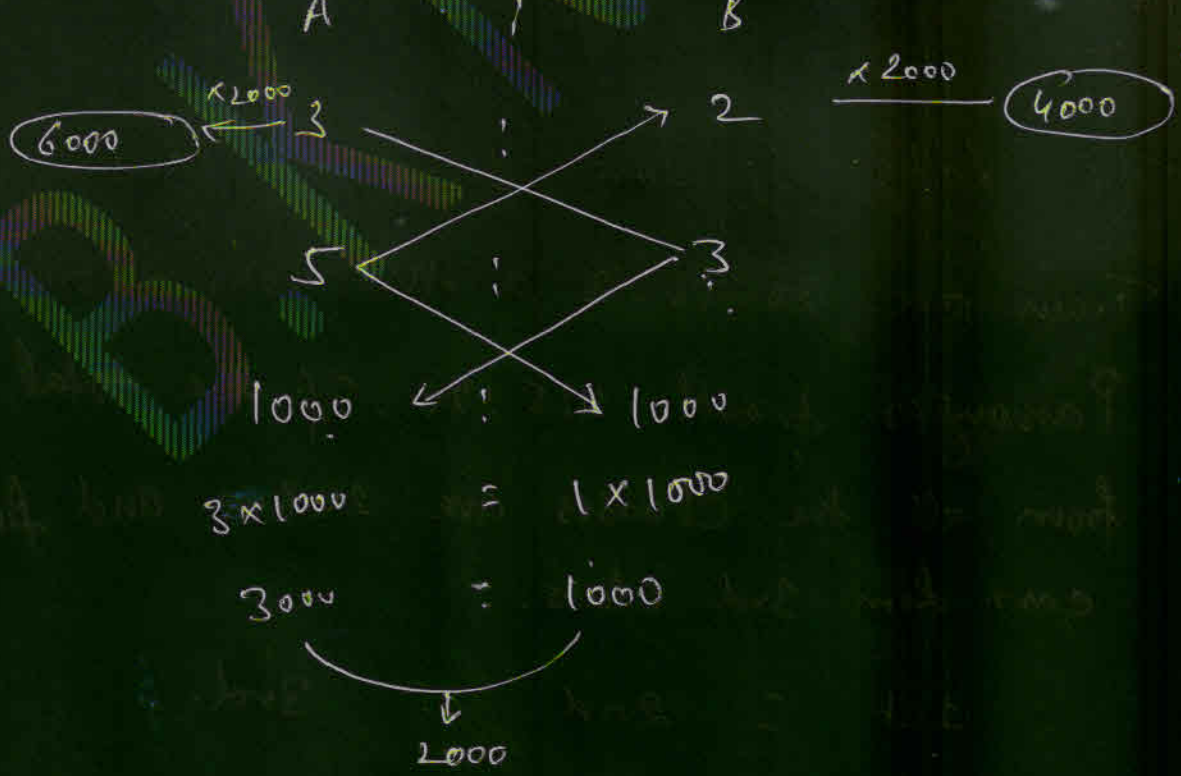
7200

A

41 — 24600

1 — 24600 / 41 — 600

Q: Income of A & B in the ratio 3:2 while there expenditure are in the ratio 5:3 if they saves Rupees 1000. each find the income.



Q:- Rupees 7800 is divided A, B, C in such a way that the share of A is 3/4 of share of B. and the share of B is 2/3 of share of C. find the difference b/w B & C.

A:-

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

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

$$A : B :: B : C$$

$$3 : 4 :: 2 : 3$$

$$3 : 4 :: 2 \times 2 : 3 \times 2$$

$$3 : \underline{4} :: \underline{4} : 6$$

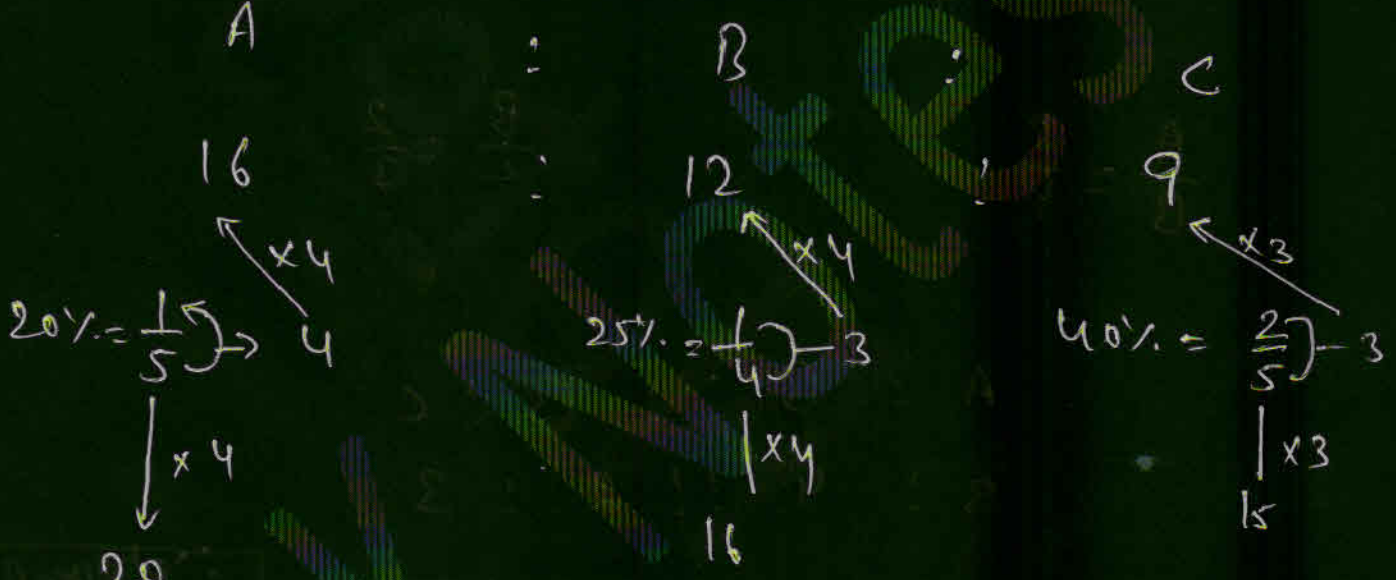
∴ B should equal in both side.

$$A : B : C = 3 : 4 : 6 = 13 \text{ ——— } 7800$$

$$1 \text{ ——— } \frac{7800}{13} = 600$$

$$2 \times 600 = 1200 \text{ Ans}$$

Q:- The Ratio of expenditure A, B, C is 16 : 12 : 9 and their Saving 20%. ; 25%. and 40%. of their income. If the Same of their income 1530. then find the income of B.



20 : 16 : 15 = 51

51 —— 1530

1 —— 1530/51 = 30.

Q:- A Bag Cantain Rupees 410 in form of Rupees 5, 2 & 1 Coins find. the no. of 2 Rupees Coins. If the no. of Coins in the bag are in the ratio 4 : 6 : 9.

$\times 10 \rightarrow (60)$ Ans.

$$4 : 6 : 9$$

$$\frac{\times 5}{20} : \frac{\times 2}{12} : \frac{\times 1}{9} = 41$$

$$41 \text{ — } 410$$

$$1 \text{ — } \frac{\cancel{410}}{\cancel{41}} \, 10 = (10)$$

$$6 \times 10 = \underline{60} \text{ Ans}$$

Q: A bag Contains Rupees 55 in the form of ₹1, 50 Paise, 25 Paise. If the no. of Coins R in the Ratio of 1:2:3. Then find the no. of 50 paise Coins.

$\times 20 \leftarrow (40)$ Ans

$$1 : 2 : 3$$

$$\frac{1}{1} : \frac{50p}{100p} \quad \frac{25p}{75p} = 2.75p$$

$$2.75 = 55$$

$$1 \text{ — } \frac{\cancel{55}^{11}}{\cancel{2.75}} \times \cancel{100}^{20} = 20$$

$$\frac{\cancel{55}}{5}$$

$$2 \times 20 = (40) \text{ Coins}$$

Q1:- A box Cantain 420 coins in the form of Rs 1₹, 50P, 20P coin. if the ratio of there value in Rupees are 13 : 11 : 7. then find the no. of 50P coin.

1₹ : 50P : 20P

13 × 1 : 11 × 2 : 7 × 5

(1₹) (1₹) (1₹)

13 : 22 : 35 = 70

× 6

132 Ans

70 — 420

1 — 420/70 = 6

6

Q1:- A box Cantains 280 coins in the form of Rupees 1, 50P, 25P coin if the value of each kind of coins in Rupees are 8 : 4 : 3 then find the no. of 50P coins.

8 : 4 : 3

1 : 50 : 25P

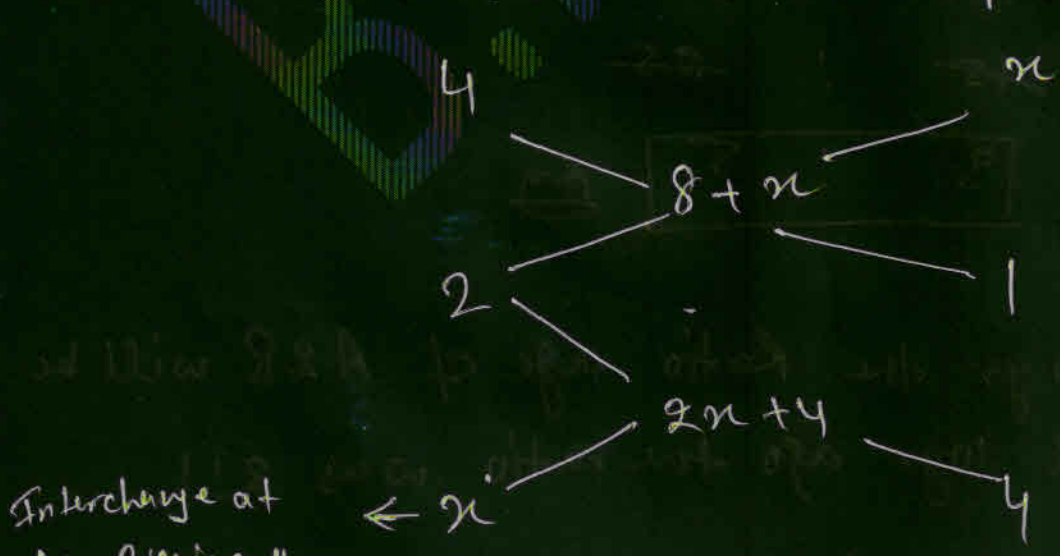
$$8 : 4\times 2 : 3\times 4$$

$$\frac{1\overline{2}}{8} : \frac{50\,P}{8} : \frac{25\,P}{12}$$

$$28 \xrightarrow{\times 10} 280$$

$$8\times 10 = \boxed{80}\ \text{Ans}$$

Q1. A man ordered 4 Black Pen and some no. of Red Pen. The Price of Black pen is double as compare to Redpen At time of Billing the no. of Pen got interchange due to this Bill Increase by 50%. find the no. of Red Pen.



Increase

100 —(50%)— 150

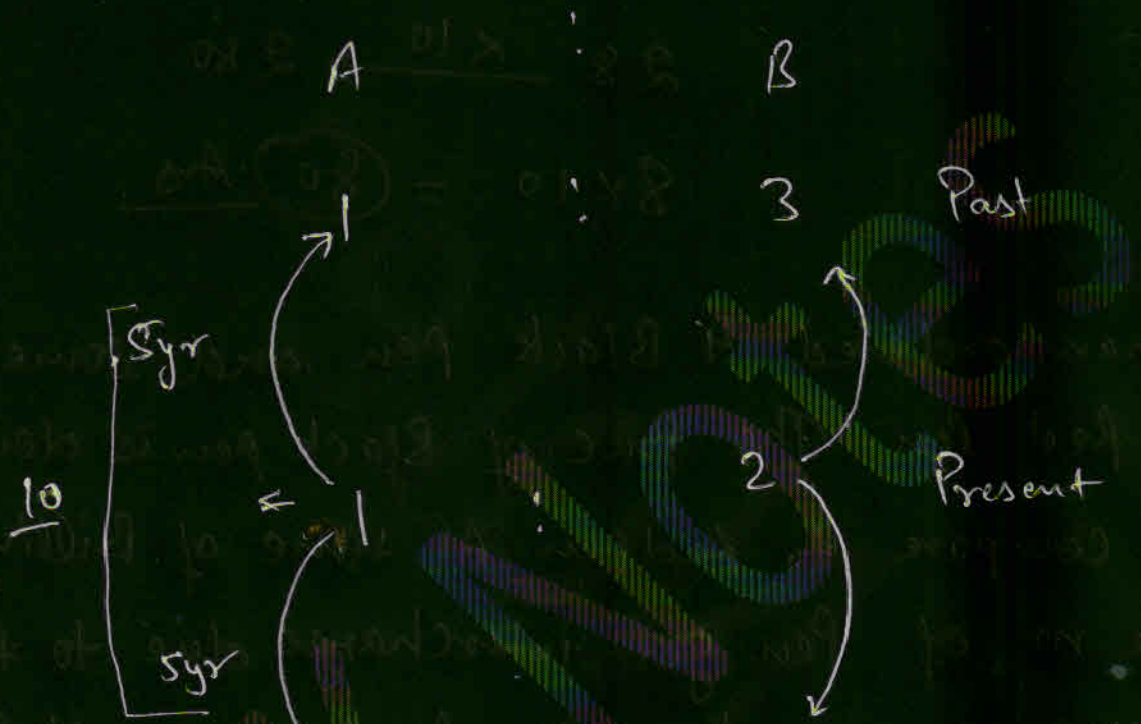
2 : 3

$$\frac{8+x}{2x+4} = \frac{2}{3}$$

$$24+3x = 4x+8$$

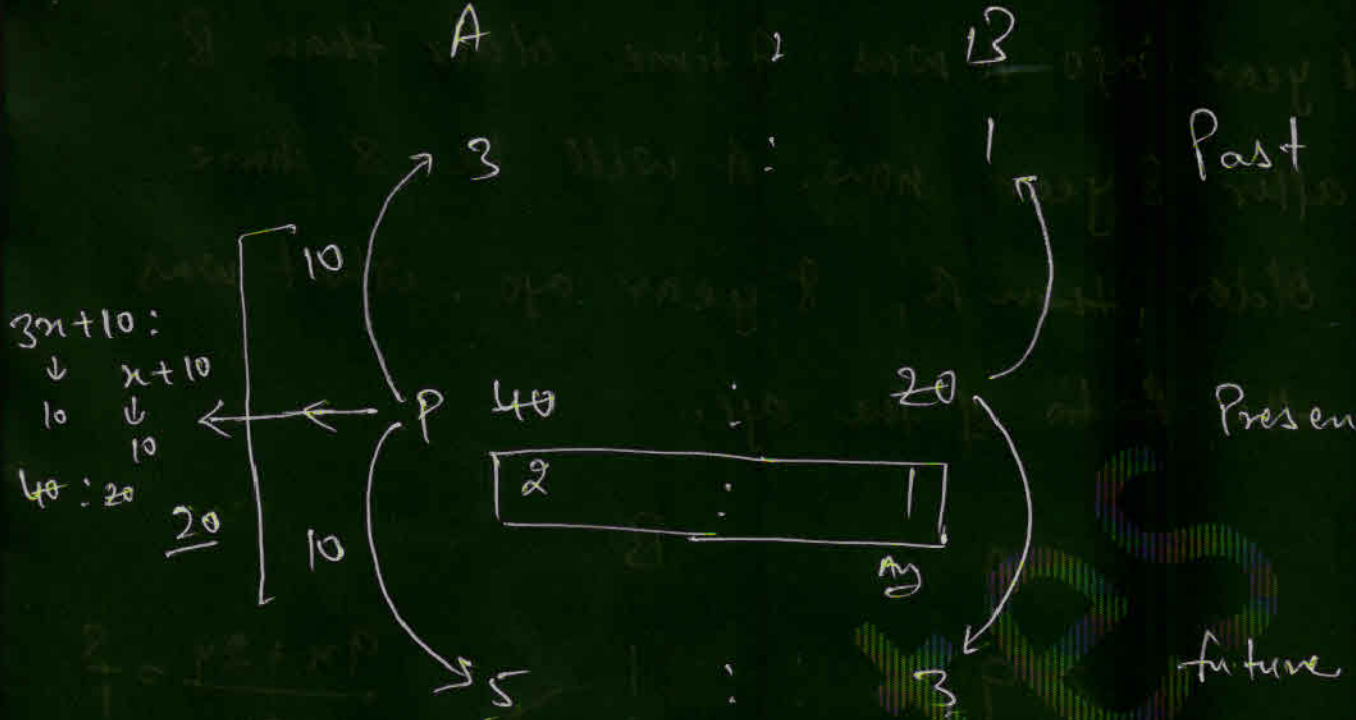
$$\boxed{x=16}\ \text{Ans}$$

Q:- Porcentage of A & B are in the Ratio 1:2 and five year ago the Ratio of the age was 1:3 what will be ratio of the age after 5yr.



Q:- after 10 yr the Ratio age of A & B will be 5:3 and 10yr ago the ratio was 3:1.

find the Ratio Present age.



$$\frac{5x-20}{3x-20} = \frac{3}{1}$$

$$5x-20 = 9x-60$$

$$4x = 40$$

$$x = \underline{10}$$

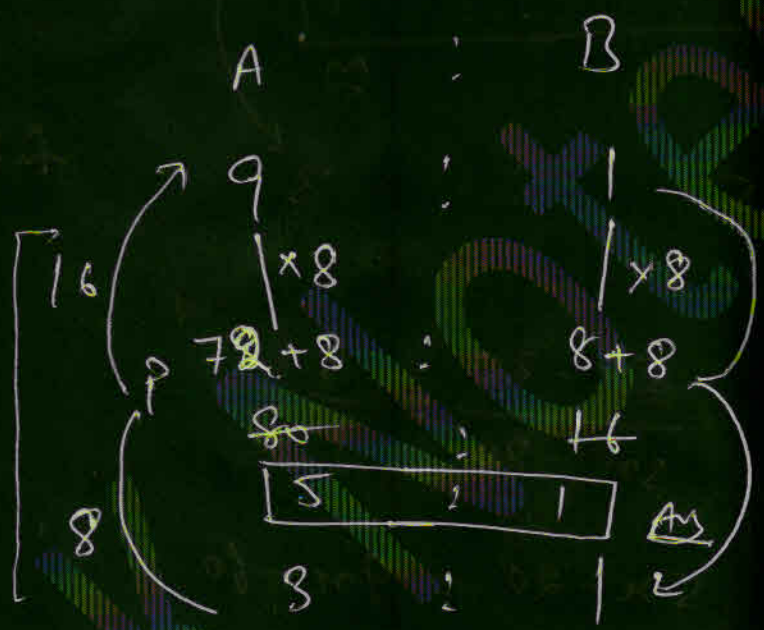
$$3x+10 : x+10$$

$$3(10)+10 : 10+10$$

~~40~~ : ~~20~~

| 2 : 1 | Ans

Q) 16 year ago A was 9 time older than B. after 8 year now. A will be 3 time older, than B, 8 year ago. what was the Ratio of the age.



$$\frac{9x+24}{x+24} = \frac{3}{1}$$

$$9x+24 = 3x+72$$

$$\boxed{x = 8}$$