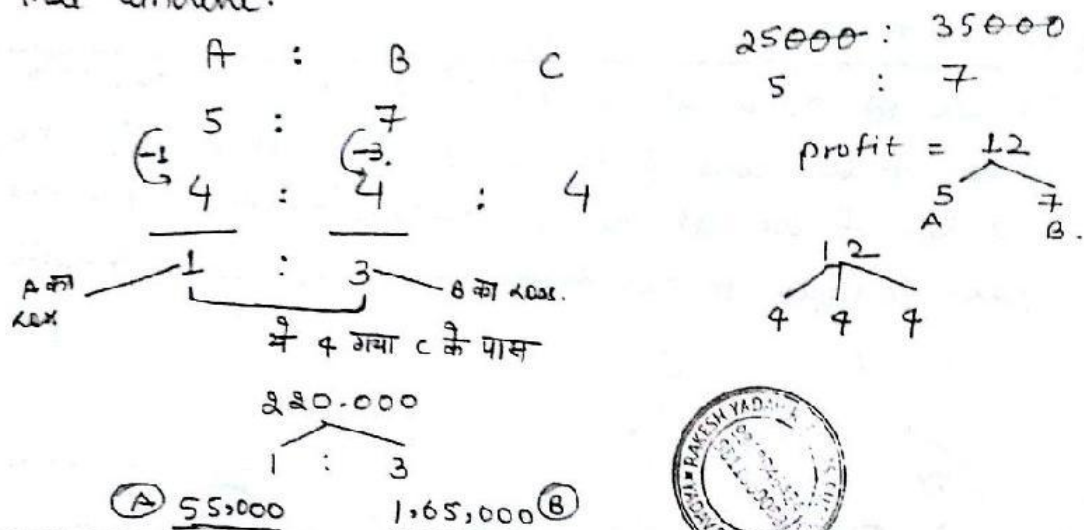


PARTNERSHIP

202

- Q9) A & B are two partners start a business by investing a capital 25,000 Rs and 35,000 Rs. and decide to share their profit acc. to their capital. But C joins the business on a condition that they will distribute the profit equally (1:1:1) and for that C gives 2,20,000 to A & B. find in w/c ratio A & B will distribute that amount.

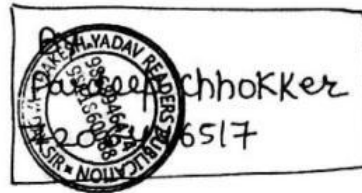


- Q9) A & B start a partnership with Rs 1500 and Rs 2000. After 4 months C also joins the business with Rs 2250. if B withdraw his capital after 9 months then find the share of profit of B in a total profit of Rs 900.

A	B	C	
1500 x 12	2000 x 9	2250 x 8	3 → 900
1800	1800	1800	1 → 300
			B → 300

- Q10) A & B start a business with Rs 50 and Rs 45. After 4 months A withdraw half of his capital and B withdraw half capital after 6 months and C joins the business with a capital of Rs 70 after 6 months. find the profit sharing ratio.

A	B	C
50x4	45x6	70x6
25x8	22.50x6	
400	405	420
80	81	84



203

- 101 A & B start a business with Rs 15000 and 15000. After 3 months A withdraw Rs 5000 and B invest Rs 5000 more. C joined the business with Rs 21000 next after 3 months. If the total profit is 24,900, find the share of C.

A	B	C
15000x3	15000x3	21000x6
11000x9	20000x9	
147	225	126

$$498 \rightarrow 24900$$

$$1 \rightarrow 50$$

$$C = 126 \times 50 = 6300 \text{ Rs.}$$



- 102 A invest $\frac{1}{6}$ part of total capital for $\frac{1}{6}$ time. B invest $\frac{1}{3}$ part of total capital for $\frac{1}{3}$ time and C invest the rest capital for full time. If the total profit is Rs 23000, find the share of B.

Total Capital = 6	A	B	C
	1x2	2x4	3x12
	2	8	36
	1	4	18

$$23 \rightarrow 23,000$$

$$1 \rightarrow 1000$$

$$B = 4000$$

- 103 A & B start a business, A invest $\frac{1}{4}$ capital for $\frac{1}{4}$ th time and B invest $\frac{1}{5}$ th capital for $\frac{1}{5}$ th time and C invest the remaining capital for full time. How should they divide a profit of Rs 1140.

A	B	C
5x3	4x5	11x20
5	8	44

$$57 \rightarrow 1140$$

$$1 \rightarrow 20$$

$$A \rightarrow 100$$

$$B \rightarrow 160$$

$$C \rightarrow 880$$

Ans

$$\frac{1}{4} \quad \frac{1}{5}$$

$$\text{Capital} = \text{LCM of } 4, 5$$

$$= 20$$

- (104) A, B, C start a business by investing the capital in 5:6:8. At the end of the business they receive the profit in the ratio of 5:3:12. find the ratio of time for w/c they contribute their capital?

	A	:	B	:	C
P	5		3		12
C	5		6		8
T	$\frac{1}{5} \times 2$		$\frac{1}{6} \times 2$		$\frac{3}{8} \times 2$
	2	:	1	:	3

Ans.

$$P = C \times T$$

$$T = \frac{P}{C}$$

$$C = \frac{P}{T}$$

- (105) A, B, C start a business, A invest money for 4 months & claim $\frac{1}{8}$ of the total profit & B invest money for 6 months & claim $\frac{1}{3}$ of the profit while C invest Rs 1560 for 8 months. How much money A & B invest?

	A	:	B	:	C
P	3		8		13
T	4		6		8
C	$\frac{3}{4} \times 24$		$\frac{8}{6} \times 24$		$\frac{13}{8} \times 24$
	18	:	32	:	39



$$\frac{1}{8} \quad \frac{1}{3}$$

$$P = 24 \text{ (LCM of 8, 3)}$$

$$39 \rightarrow 1560$$

$$1 \rightarrow 40$$

$$A \rightarrow 18 \times 40 = 720$$

$$B \rightarrow 32 \times 40 = 1280$$

- (106) A & B rent a pasture for 10 months. A puts in 100 cows for 8 months. How many cows can B put in for the remaining two months if he pays $\frac{3}{2}$ as much as A.

$$A = 100 \times 8 = 800$$

$$B = C \times 2$$

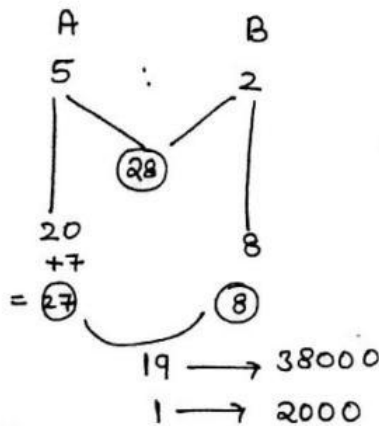
$$100 \times 8 \times 3 = C \times 2 \times 2$$

$$C = 600$$

$$B = A \times \frac{3}{2}$$

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

(107) A & B start a business with 50,000 & 20,000 Rs. If A is working partner and takes 20% of the total profit as his salary and remaining profit is divided acc. to their capital. If in this process A received Rs 38000 more than B. Find the amount of total profit?



$$A = \frac{5}{7} \times 28 = 20$$

$$B = \frac{2}{7} \times 28 = 8$$

$$20\% = \frac{1}{5}$$

$$T.P = 5 \times 7$$

$$A's \text{ salary} = 1 \times 7$$

Profit to be distributed
 $= 4 \times 7 \rightarrow$ Multiply by 7
 so that fraction
 becomes 1

$$\text{Total Profit} = 35 = 35 \times 2000$$

$$= 70000 \text{ Rs } \underline{\underline{\text{Ans}}}$$

(108) A, B, C are three partners with a capital 8,00,000, 12,00,000, 15,00,000 and they decide to share their profit acc. to the ratio of their capital. But A is working partner and takes $12\frac{1}{2}\%$ of total profit as salary. If A receives Rs 5200 from the business. Find the amount of total profit?

A	B	C
8	12	15
$\frac{8}{35} \times 35$	$\frac{12}{35} \times 35$	$\frac{15}{35} \times 35$
8	12	15
+5		
13		



$$12\frac{1}{2}\% = \frac{1 \times 5}{8 \times 5} \rightarrow \begin{matrix} A's \text{ salary} \\ T.P \end{matrix}$$

$$\text{Distributed P} = 7 \times 5$$

$$12 \rightarrow 5200$$

$$1 \rightarrow 400$$

$$\text{Total Profit} = 40 \times 400 = 16000 \text{ Rs } \underline{\underline{\text{Ans}}}$$

(109) A & B are two partners with capital 50,000 & 70,000 and agreed that 70% of the total profit should be divided equally b/w them and the remaining profit in the ratio of their capital. If one partner gets Rs 90 more than other find the total profit?

115) A & B started a business with a capital of Rs 32,000 & Rs 56,000 & decide to share their profit acc. to their capital. But C join the business on a condition that they will ~~decided~~ ^{share} the profit equally & for that C gives 2,20,000 to A & B. Then find in what ratio A & B will distribute that amount. 208

$$\begin{array}{ccc} A & : & B \\ 4 & : & 7 \end{array}$$

$$\frac{32000}{4} : \frac{56000}{7}$$

$$P = 11$$

$$\begin{array}{ccc} \frac{11}{3} & & \frac{11}{3} \\ \hline \frac{1}{3} & & \frac{10}{3} \\ 1 & : & 10 \end{array}$$

After C join = $\frac{11}{3} = P$

$$\begin{array}{l} \textcircled{A} \\ 4 - \frac{11}{3} \\ = \frac{1}{3} \end{array}$$

$$\begin{array}{l} \textcircled{B} \\ 7 - \frac{11}{3} \\ = \frac{10}{3} \end{array}$$

Loss of A

Loss of B

$$\begin{array}{ccc} & 2,20,000 & \\ & \swarrow \quad \searrow & \\ A & & B \\ 1 & : & 10 \\ 20,000 & & 2,00,000 \end{array}$$

$$11 \rightarrow 2,20,000$$

$$1 \rightarrow 20,000$$

