

PARTNERSHIP LESSON-1

Q1. A starts a business with 30,000 and B joins him after 3 months with Rs 120000. find the ratio of ~~pro~~ their profits at the end of the year.

$$I_A = \underline{30,000}, t_A = \underline{12 \text{ month}}$$

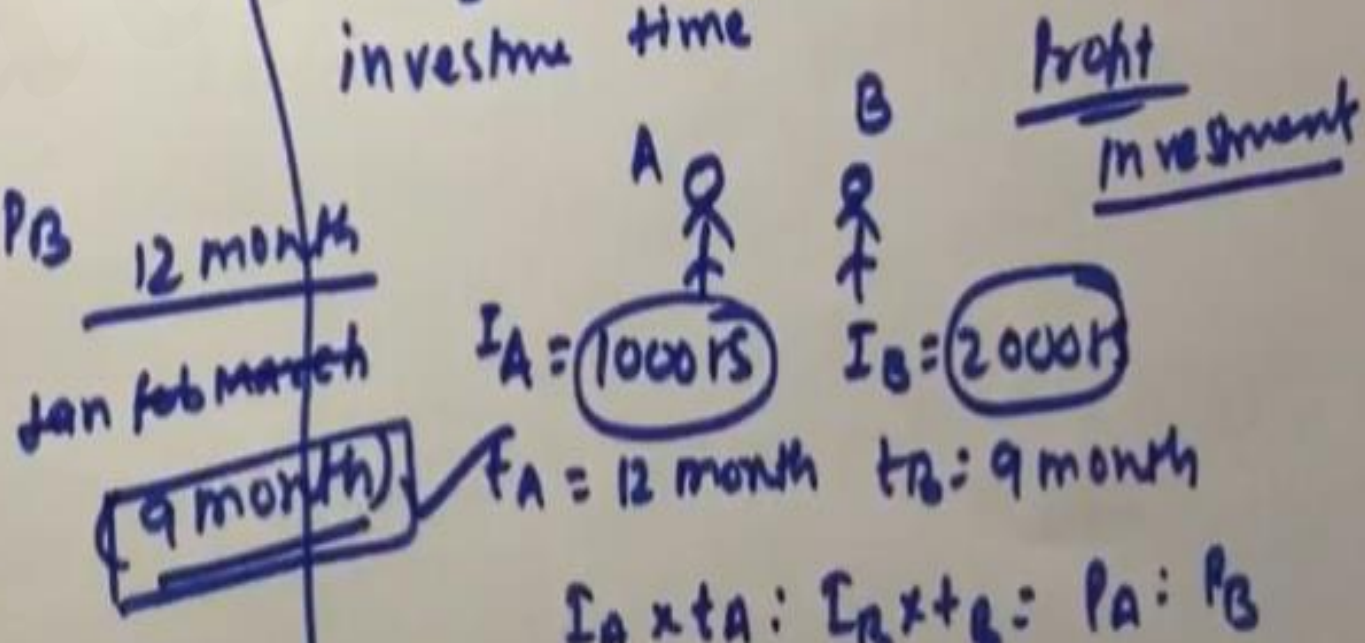
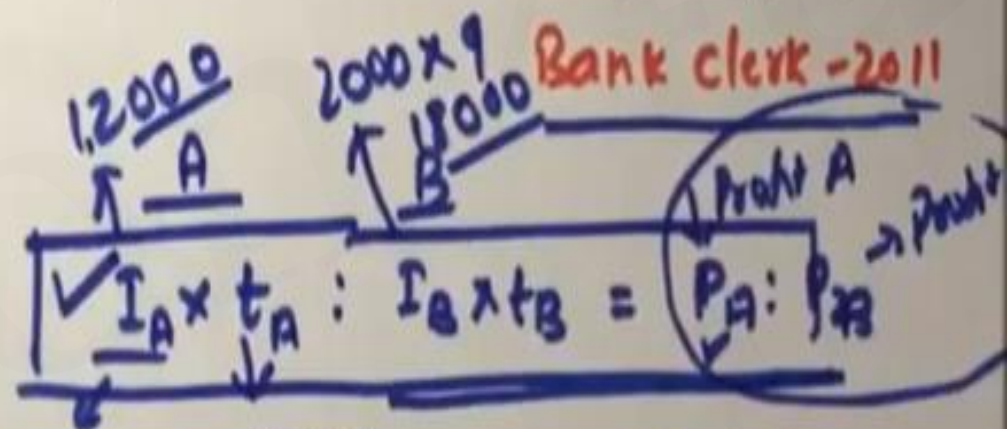
$$I_B = \underline{1,20,000} \quad t_B = \underline{9 \text{ month}}$$

$$\Rightarrow I_A \times t_A : I_B \times t_B = P_A : P_B$$

$$\Rightarrow \cancel{30000} \times \cancel{12} : \cancel{1,20,000} \times 9 = P_A : P_B$$

1 : 3

$$P_A : P_B = 1 : 3$$



Q2. A starts business with Rs. 3500 and after 5 months, B joins A as his partner. After a year, the profit is divided in the ratio 2:3. What is B's contribution in the Capital?

- A) Rs 7500 B) Rs 8000 C) Rs 8500 D) Rs 9000

$$I_A = 3500, t_A = 12 \text{ month}$$

$$\underline{P_A : P_B = 2 : 3}$$

$$I_B = ? \checkmark \quad t_B = 7 \text{ month}$$

$$I_A \times t_A : \underline{I_B \times t_B} = P_A : P_B$$

$$5 \cancel{3} 500 \times 12 : I_B \times \cancel{7} = 2 : 3$$

$$\Rightarrow \frac{500 \times 12}{I_B} \times \frac{2}{3}$$

$$500 \times 12 \times 3 = 2 \times I_B \Rightarrow I_B = \frac{500 \times 12 \times 3}{2}$$

$$\boxed{9000}$$

$$5 + 18 = 90$$

$$\frac{500 \times 12 \times 3}{2}$$