

Quantitative Aptitude

Partnership

S. No.	Concept / Formula	Explanation	Example
1	Types of Partnership • Simple • Compound	- Simple: same time- Compound: different times	Simple: A & B invest ₹5000 each for 12 months → equal profit share. Compound: A invests for 12 months, B for 6 months → profits not equally divided.
2	Profit Ratio $\text{Profit} \propto \text{Capital} \times \text{Time}$	Multiply capital and time to find profit ratio	A: ₹6000 for 12 months → $6000 \times 12 = 72000$ B: ₹8000 for 6 months → $8000 \times 6 = 48000$ Ratio = $72000:48000 = 3:2$
3	Individual Share of Profit Partner's share = Total Profit $\times$ Ratio share	Apply the ratio on total profit	Total Profit = ₹2500 Profit ratio A:B = 3:2 A's share = $\frac{3}{5} \times 2500 = ₹1500$ B's share = ₹1000
4	Capital when Profit & Time are known $\text{Capital} \propto \text{Profit} / \text{Time}$	Reverse use of the profit formula	A & B share profit in 4:5 Time = 6 months (same) So, Capital ratio A:B = 4:5
5	Equivalent Capital $\text{Capital} \times \text{Time} = \text{Equivalent Capital}$	Used to make fair comparisons	A: ₹2000 for 10 months = $2000 \times 10 = 20000$ B: ₹2500 for 8 months = $2500 \times 8 = 20000$ → Equal profits
6	Incoming Partner's Goodwill Share Goodwill Share = Share $\times$ Total Goodwill	Used when a new partner pays to join	Goodwill = ₹60,000 C gets 1/4th share → C pays $\frac{1}{4} \times 60,000 = ₹15,000$
7	Change in Capital Recalculate capital after changes	Track changes in investment periods	A invests ₹4000 for 4 months, then ₹6000 for 8 months Total = $(4000 \times 4) + (6000 \times 8) = 16,000 + 48,000 = ₹64,000$
8	Sleeping Partner	Doesn't participate in work, only capital	A (working), B (sleeping). Both invest equally for 12 months → Equal profit if no salary.
9	Working Partner May receive salary or commission	Active in management & gets fixed benefits	A & B are equal partners A gets ₹200/month as salary for 12 months = ₹2400 Subtract ₹2400 from profit, rest is shared.
10	Salary to Working Partner Deduct salary before profit division	Profit is adjusted before sharing	Profit = ₹12,000 A gets salary ₹2000 Remaining ₹10,000 shared in 3:2 ratio
11	Average Capital Use: $\Sigma(\text{Capital} \times \text{Time})$	Use when investments vary over time	A invests ₹5000 for 6 months + ₹7000 for 6 months Total = $(5000 \times 6) + (7000 \times 6) = ₹72,000$
12	New Partner Admission New Share = $(\text{Capital} \times \text{Time}) / \text{Total}$	Calculate adjusted profit ratio after joining	A: ₹6000 for 12 months → 72000 B: ₹4000 for 12 months → 48000 C joins with ₹5000 for 6 months → 30000 New ratio A:B:C = $72000:48000:30000 = 12:8:5$

Partnership (Working and Sleeping Partners)

No.	Concept	Formula	Example (with Solution)
1	Profit Sharing Ratio	Partner's Share = $(\text{Capital} \times \text{Time}) / \text{Total} (\text{Capital} \times \text{Time})$	A invests ₹20,000, B invests ₹30,000 for 12 months. Profit = ₹25,000 ➤ A:B = $(20k \times 12):(30k \times 12) = 240k:360k = 2:3$ ➤ A's share = ₹10,000; B's share = ₹15,000

2	Salary to Working Partner	1. Pay Salary/Commission First 2. Divide Remaining Profit as per Capital $\times$ Time	A and B invest ₹25,000 each. A is working and gets ₹2,000/month for 4 months. Profit = ₹14,000 ▶ Salary to A = ₹8,000 ▶ Remaining = ₹6,000 ▶ Capital ratio = 1:1 $\rightarrow$ A & B get ₹3,000 each ▶ Final: A = ₹11,000, B = ₹3,000
3	Commission to Working Partner	Working Partner gets % of total profit as commission; rest divided in capital ratio	X (sleeping) invests ₹40,000, Y (working) invests ₹60,000. Y gets 10% commission. Profit = ₹50,000 ▶ Commission = ₹5,000 ▶ Remaining = ₹45,000 ▶ Capital ratio = 4:6 = 2:3 ▶ X = ₹18,000; Y = ₹27,000 + ₹5,000 = ₹32,000

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