Quantitative Aptitude

Profit & Loss (Successive selling and Dishonest Dealings)

Concept	Formula / Shortcut	Explanation & Tips
Successive Profit or Loss	Net% = A + B + (A×B)/100	A and B are successive profit/loss percentages
Successive Loss Formula	Same: Net% = A + B + (A×B)/100 Use negative signs for loss	Example: 20% profit then 10% loss → Net% = 20 – 10 – (20×10)/100 = 8% profit
Dishonest Dealer (Using false weight)	Gain% = (Error in weight / True weight) × 100	If dealer gives 950g instead of 1kg: Gain = (50/950)×100
Dishonest Dealer (Mixing cheaper item)	Gain% = (Profit on mixing / Cost Price of mixture) × 100	E.g. mixing 1kg of ₹100 item with 1kg of ₹50 item & selling at ₹100
Double Selling (Profit in both deals)	If SP1 = SP2 but CP1 ≠ CP2: Loss% = ($Loss^2$ / Profit%)	Use when an item is sold at two different CPs but same SP
Overall Profit/Loss on Successive Selling	1st SP = CP + profit/loss, 2nd SP = new CP ± profit/loss	Always take base as **first CP**, then find overall %

[For more study material and quizzes check out SSC CGL Target 150+ Success Series]