

FINANCIAL FORMULAS - QUICK REFERENCE GUIDE

INFLATION & RETURNS	TIME VALUE OF MONEY	TURNOVER RATIOS
$FV = PV \times (1 + \text{Inflation Rate})^n$	Future Value (Single Flow) Discrete: $FV = PV \times (1 + r)^t$ Continuous: $FV = PV \times e^{rt}$ ($e \approx 2.7183$)	Inv. Turnover = COGS / Avg Inv. COGS = Sales – Profit Avg Inv = (Open + Close) / 2
Real Return = Inv. Return – Inflation Rate		Debtors T/O = Net Credit Sales / Avg Debtors
MUTUAL FUNDS & EQUITY	Present Value (Single Flow) Discrete: $PV = FV / (1 + r)^t$ Continuous: $PV = FV \times e^{-rt}$	ACP = Avg Debtors / Daily Credit Sales or ACP = 365 / Debtors Turnover
NAV = (Total Assets – Liab.) / Units		FA Turnover = Net Sales / Net FA
Market Cap = Market Price × Total Shares	Present Value of Annuity Discrete: $PVA = FV \left[\frac{(1+r)^t - 1}{r(1+r)^t} \right]$ Continuous: $PVA = FV \times \left[\frac{1 - e^{-rt}}{r} \right]$	TA Turnover = Net Sales / Avg Total Assets
Brokerage ≤ 2.5% of Trade Value		
Spread = Best Bid – Best Ask		
YIELD MEASURES	LIQUIDITY RATIOS Current Ratio = CA / CL	PROFITABILITY RATIOS
Curr. Yield = (Annual Coupon / Market Price) × 100 Annual Coupon = Coupon Rate × Face Value (FV=100)	Acid Test = Quick Assets / CL Quick Assets = CA – (Inv. + Prepaid)	Gross Profit Ratio = (GP / Sales) × 100
Div. Yield = (Annual Dividend / Share Price) × 100		Net Profit Ratio = (NP / Sales) × 100
INTEREST & COMPOUNDING	LEVERAGE RATIOS D/E Ratio = Total Debt / Total Equity	Return On Total Assets = NPAT / (Fixed Assets + CA)
Simple Interest (SI) $SI = P \times n \times r$ $A = P(1 + nr)$	D/A Ratio = Total Debt / Total Assets	Return On Capital Employed = NPAT / Capital Employed Cap Emp = FA + CA – CL
Compound Amount (CA) $A = P(1 + i)^n$	ICR = EBIT / Interest	Return On Shareholders' Equity = NPAT / Shareholders' Equity
BALANCE SHEET BASICS	DSCR = Cash Flows / Debt Obligations Num: (PAT + Dep + Non-cash + Int) Den: (Interest + Loan Repayment)	Valuation EPS = Profit Avail. to Equity / Shares P/E = Market Price / EPS
Net Block = Gross – Depreciation		
NWC = Curr. Assets – Curr. Liab.		
Rate of Return = Total Return / P_{begin}		
Total Return = Div + ($P_{end} - P_{begin}$)		