

Finance Formulas Cheat Sheet

Net Present Value (NPV)

NPV measures the profitability of a project by calculating the difference between the present value of cash inflows and the initial investment.

Formula: $NPV = \sum_{t=1}^n \frac{CF_t}{(1+r)^t} - C_0$

Example: Investment = ₹1,000
Cash inflows: ₹400/year 1-3 years; Discount rate = 10%
NPV = ₹994.74 - ₹1000 = -₹55.26
NPV = ₹994.74 - 1000 = -₹55.26

Internal Rate of Return (IRR)

IRR is the discount rate that makes NPV = 0. It's used to evaluate the profitability of investments.

Formula: $NPV = \sum_{t=1}^n \frac{CF_t}{(1+IRR)^t} - C_0 = 0$

Example: Investment = ₹1,000 returning ₹400 annually for 3 years

Payback Period

The time it takes to recover the initial investment.

Formula: $Payback\ Period = \frac{Initial\ Investment}{Cash\ Inflow}$

Example: Investment = ₹1,000, Cash Inflow = ₹250
Example: Payback Period = 1000/250 = 4 years

Return on Investment (ROI)

Measures profitability relative to investment cost

Formula: $ROI = \frac{Gain - Cost}{Cost} \times 100$

Example: Gain = ₹1,200 - 1000 × 100 = 20%

Future Value (FV)

FV calculates the value of current money at a future date with compound interest.

Formula: $FV = PV \times (1 + r)^n$

Example: $FV = 1000(1 + 0.10)^2 = ₹1,331$

Example: $FV = ₹1,991.4 - ₹1000 = ₹991.4$

Present Value (PV)

PV is the current value of future cash flows discounted at a specific rate.

Formula: $PV = \frac{FV}{(1+r)^n}$

Example: $FV = ₹1,331, r = 10\%, n = 2$

Example: $PV = \frac{1351}{(1.10)^2} = ₹1,000$

Capital Asset Pricing Model (CAPM)

Estimates expected return on an asset based on risk.

Formula: $ROI = \frac{Gain - Cost}{Cost} \times 100$

Example: Gain = ₹1,200 - 1000 × 100 = 20%

Example: $ROI = \frac{1200 - 1000}{1000} \times 100 = 20\%$

Weighted Average Cost of Capital (WACC)

Average rate a company is expected to pay to finance its assets.

Formula: $WACC = \frac{Net\ Income - Preferred\ Dividends}{Equity + Debt}$

Example: $\frac{900,000 - 100,000}{1,000,000} = 80\%$

Example: Debt = 300,000, Equity = 250,000 = 2

Basic Finance Formula Sheet

Sally L. Hoffman, Michael Elliot-Jones

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the grey bar.

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