

$$V_T(T) = S_T - F_T(T)$$

$$F_T(T) = S_0 (1 + r)^T$$

$$w_i^* = \frac{1}{N}$$

Corporate Finance

Cheat Sheets

$$w_i^* = \frac{Q_i P_i}{\sum_{i=1}^N Q_i P_i}$$

365✓

Corporate Finance

CAPITAL BUDGETING

Net present value (NPV)	$NPV = \sum_{t=0}^N \frac{CF_t}{(1+r)^t}$	<p>CF_t = Expected net cash flow at time t N = Investment's projected life r = Required rate of return for the investment</p>
Internal Rate of Return (IRR)	$\sum_{t=0}^N \frac{CF_t}{(1+IRR)^t} = 0$	<p>CF_t = After-tax cash flow at time t r = Required rate of return for the investment</p>
Average Accounting Rate of Return (AAR)	$AAR = \frac{\text{Average net income}}{\text{Average book value}}$	
Profitability Index (PI)	$PI = \frac{\text{PV of future cash flows}}{\text{Initial Investment}} = 1 + \frac{NPV}{\text{Initial Investment}}$	

COST OF CAPITAL

Weighted Average Cost of Capital (WACC)	$WACC = w_d r_d (1 - t) + w_p r_p + w_e r_e$	<p>w_d = The desired or target proportion of debt in a company's capital structure when securing new funding r_d = The cost of debt before the application of taxes t = The company's marginal tax rate w_p = The targeted proportion of preferred stock in a company's capital structure when the firm raises new funds r_p = Marginal cost of preferred stock w_e = The target proportion of common stock in the capital structure when the company raises new capital r_e = The marginal cost of common stock</p>
Tax shield	$\text{Tax shield} = \text{Deduction} \times \text{Tax rate}$	
Cost of Preferred Stock	$r_p = \frac{D_p}{P_p}$	<p>P_p = Current preferred stock price per share D_p = Preferred stock dividend per share r_p = Cost of preferred stock</p>

Corporate Finance

COST OF CAPITAL

Cost of Equity

(Dividend discount model approach)

$$r_e = \frac{D_1}{P_0} + g$$

P_0 = The current stock price

D_1 = The expected dividend at the end of Period 1

r_e = Required rate of return on the market

g = The growth rate

Growth Rate

$$g = \left(1 - \frac{D}{EPS}\right) \times ROE$$

ROE = Return on Equity

D = Dividends per share

EPS = Earnings per share (EPS)

(D/EPS) = Assumed stable dividend payout ratio

Cost of Equity

(Bond yield plus risk premium)

$$r_e = r_d + \text{Risk Premium}$$

Risk premium = Additional yield on a company's stock relative to its bonds

r_d = The cost of debt

Capital Asset Pricing Model (CAPM)

$$E(R_i) = R_F + \beta_i [E(R_M) - R_F]$$

β_i = Return sensitivity of stock i to changes in the market return

$E(R_M)$ = Expected return on the market

$E(R_M) - R_F$ = Expected market risk premium

R_F = Risk-free rate of interest

Beta of a Stock

$$\beta_i = \frac{\text{Cov}(R_i, R_M)}{\text{Var}(R_M)}$$

R_m = Average expected rate of return on the market

R_i = Expected return on an asset i

Cov(R_i, R_m) = The covariance of the return of asset i with the return of the market

Var(R_m) = The variance of the return of the market

Pure-play Method Project Beta

(De-lever)

$$\beta_{\text{Unlevered, Comparable}} = \frac{\beta_{\text{Levered, Comparable}}}{\left[1 + \left((1 - t_{\text{Comparable}}) \frac{D_{\text{Comparable}}}{E_{\text{Comparable}}}\right)\right]}$$

t = Tax rate

D = Debt

E = Equity

Pure-play Method for Subject Firm

(Re-lever)

$$\beta_{\text{Levered, Project}} = \beta_{\text{Unlevered, Comparable}} \left[1 + \left((1 - t_{\text{Project}}) \frac{D_{\text{Project}}}{E_{\text{Project}}}\right)\right]$$

Corporate Finance

COST OF CAPITAL

Adjusted CAPM

(for country risk premium)

$$E(R_i) = R_F + \beta_i [E(R_M) - R_F + \text{Country risk premium}]$$

Country Risk Premium

$$\text{CRP} = \text{Sovereign yield spread} \times \left(\frac{\sigma \text{ of equity index of the developing country}}{\sigma \text{ of sovereign bond market in terms of the developed market currency}} \right)$$

σ = Standard deviation

Break Point

$$\text{Break point} = \frac{\text{Amount of capital at which the source's cost of capital changes}}{\text{Proportion of new capital raised from the source}}$$

MEASURES OF LEVERAGE

Degree of Operating Leverage

$$\text{Degree of Operating Leverage} = \frac{\text{Percentage change in operating income}}{\text{Percentage change in units sold}}$$

Degree of Financial Leverage

$$\text{Degree of Financial Leverage} = \frac{\text{Percentage change in Net Income}}{\text{Percentage change in EBIT}}$$

Degree of Total Leverage

$$\text{Degree of Total Leverage} = \frac{\text{Percentage change in Net Income}}{\text{Percentage change in number of Units Sold}}$$

Return on Equity (ROE)

$$\text{Return on Equity} = \frac{\text{Net Income}}{\text{Shareholders' Equity}}$$

The Breakeven Quantity of Sales

$$Q_{\text{Breakeven}} = \frac{F + C}{P - V}$$

P = Price per unit
 V = Variable cost per unit
 F = Fixed operating costs
 C = Fixed financial cost
 Q = Quantity of units produced and sold

Operating Breakeven Quantity of Sales

$$Q_{\text{Operating Breakeven}} = \frac{F}{P - V}$$

P = Price per unit
 V = Variable cost per unit
 F = Fixed operating costs

Corporate Finance





WORKING CAPITAL MANAGEMENT

Current Ratio	Current Ratio = $\frac{\text{Current assets}}{\text{Current liabilities}}$
Quick Ratio	Quick Ratio = $\frac{\text{Cash} + \text{Receivables} + \text{Short-term marketable investments}}{\text{Current liabilities}}$
Accounts Receivable Turnover	Accounts Receivable Turnover = $\frac{\text{Credit sales}}{\text{Average receivables}}$
Number of Days of Receivables	Number of days of receivables = $\frac{365}{\text{Accounts receivable turnover}}$
Inventory Turnover	Inventory Turnover = $\frac{\text{Cost of goods sold}}{\text{Average Inventory}}$
Number of Days of Inventory	Number of Days of Inventory = $\frac{365}{\text{Inventory turnover}}$
Payables Turnover	Payables Turnover Ratio = $\frac{\text{Purchases}}{\text{Average accounts payables}}$
Number of Days of Payables	Number of Days of Payables = $\frac{365}{\text{Payables turnover ratio}}$
Net Operating Cycle	Net operating cycle = Number of days of inventory + Number of days of receivables - Number of days of payables
Yield on a Bank Discount Basis (BDY)	$r_{BD} = \frac{D}{F} \times \frac{360}{t}$ <p> D = Dollar discount, which is equal to the difference between the face value of the bill (F) and its purchase price (P₀) F = Face value of the T-bill t = Actual number of days remaining to maturity r_{BD} = Annualized yield on a bank discount basis </p>
Effective Annual Yield (EAY)	EAY = $(1 + \text{HPR})^{\frac{360}{t}} - 1$
Holding Period Return	HPR = $\frac{(\text{Cashflow ending value} - \text{Beginning value} + \text{Cashflow received})}{\text{Beginning value}}$
Cost of Trade Credit	Cost of trade credit = $\left(1 + \frac{\% \text{Discount}}{1 - \% \text{Discount}}\right)^{\frac{360}{\text{Number of days past discount}}} - 1$
Cost of Borrowing	Cost of borrowing = $\frac{\text{Interest} + \text{Dealer's commission} + \text{Other costs}}{\text{Loan amount} - \text{Interest}}$

Master the Finance Skills Necessary to Succeed.

Now at **60% OFF!**

Become an expert in financial reporting, accounting, analysis, or modeling with our **comprehensive training program.**

-  Learn from industry-leading instructors and gain practical skills to advance your career.
-  Build your knowledge with self-paced courses and enjoy the flexibility of online learning.
-  Validate your skills with exams and certificates demonstrating your expertise to potential employers.
-  Stand out in the job market with a strong resume created with our resume builder.

Save 60% on an annual plan from the online learning program that helped more than **2 million people** advance their careers.

[Start learning now](#)

30-day money-back guarantee

$$V_T(T) = S_T - F_T(T)$$

$$F_T(T) = S_0 (1 + r)^T$$

$$w_i^* = \frac{1}{N}$$

Email: team@365financialanalyst.com

$$w_i^* = \frac{Q_i P_i}{\sum_{i=1}^N Q_i P_i}$$

365 