

# FINANCE

## CORPORATION

**Definition:** A legal form of business organization wherein the firm's owners or stockholders have limited liability.

### CORPORATE DECISIONS

- **INVESTMENT:** What real (physical) assets should the firm acquire? How much money should be invested in real assets?
- **FINANCING:** What securities or financial assets should the firm issue? How much money should be raised through the issuance of securities?
- **DIVIDENDS:** What portion of the firm's profits should be paid to stockholders in the form of dividends?
- **WORKING CAPITAL:** Management of current assets and current liabilities.
- **GOAL OF THE FIRM:** To maximize shareholders' wealth or equivalently, to maximize the price of the firm's common stock.

## ACCOUNTING STATEMENTS

### BALANCE SHEET IDENTITY

$$\text{Assets} = \text{Liabilities} + \text{Owners' Equity}$$

### INCOME STATEMENT

Sales

- Cost of Goods Sold (COGS)
- = Gross Profit (GP)
- Administrative Expenses
- Depreciation
- Other Expenses
- = Earnings Before Interests and Taxes (EBIT)
- Interest
- = Earnings before taxes
- Taxes
- = Net Income (Net Profit)

### STATEMENT OF RETAINED EARNINGS

Beginning Balance Retained Earnings

- + Net Profit
- Dividends on Preferred Stock
- Dividends on Common Stock
- = Ending Balance Retained Earnings

### STATEMENT OF CASH FLOWS

Cash Flows from Operations

- + Cash Flows from Investments
- + Cash Flows from Financing
- = Net Increase (or Decrease) in Cash

### CASH FLOW IDENTITY

- Cash flow from assets =
- Sum of the Cash Flow paid to the suppliers of capital to the firm

## FINANCIAL RATIOS

### LIQUIDITY

**Definition:** Measure of the firm's ability to meet its short-term obligations.

$$\text{Current Ratio} = \frac{\text{current assets}}{\text{current liabilities}}$$

$$\text{Quick Ratio} = \frac{\text{current assets} - \text{inventory}}{\text{current liabilities}}$$

$$\text{Net Working Capital to Total Assets Ratio} = \frac{\text{current assets} - \text{inventory}}{\text{total assets}}$$

### ACTIVITY

**Definition:** Measure of the firm's efficiency in generating sales with its assets.

$$\text{Inventory Turnover} = \frac{\text{cost of goods sold}}{\text{average inventory}}$$

$$\text{Collection Period} = \frac{\text{accounts receivable}}{\text{credit sales per day}}$$

$$\text{Fixed Asset Turnover} = \frac{\text{sales}}{\text{net fixed assets}}$$

$$\text{Total Assets Turnover} = \frac{\text{sales}}{\text{total assets}}$$

### LEVERAGE

**Definition:** Measure of the firm's degree of indebtedness and its ability to meet long-term obligations.

$$\text{Debt Ratio} = \frac{\text{total liabilities}}{\text{total assets}}$$

$$\text{Debt to Equity Ratio} = \frac{\text{long-term debt}}{\text{stockholders' equity or equity}}$$

$$\text{Times Interest Earned Ratio} = \frac{\text{EBIT}}{\text{interest}}$$

$$\text{Cash Coverage Ratio} = \frac{\text{EBIT} + \text{depreciation}}{\text{interest}}$$

$$\text{Fixed Charge Coverage Ratio} = \frac{\text{EBIT} + \text{lease payments}}{\text{interest} + \text{lease payments}}$$

$$\text{Equity Multiplier Ratio} = \frac{\text{total assets}}{\text{total equity}}$$

### PROFITABILITY

**Definition:** Measure of the returns on assets and equity.

$$\text{Gross Profit Margin} = \frac{\text{gross profit}}{\text{sales}}$$

$$\text{Net Profit Margin} = \frac{\text{net income}}{\text{sales}}$$

$$\text{Return on Assets (ROA)} = \frac{\text{net income}}{\text{total assets}}$$

$$\text{Return on Equity (ROE)} = \frac{\text{net income}}{\text{equity}}$$

$$\text{Price / Earnings (P/E) Ratio} = \frac{\text{price per share of common stock}}{\text{earnings per share}}$$

$$\text{Earnings per share (EPS)} = \frac{\text{earnings available to common stockholders}}{\text{number of shares of common stock outstanding}}$$

$$\text{Market-to-Book Ratio} = \frac{\text{common stock price per share}}{\text{book value of common stock per share}}$$

**Dupont system:**

- ROE = net profit margin  $\times$  total asset turnover  $\times$  equity multiplier
- or
- ROE = ROA  $\times$  (1 + debt-to-equity ratio)

## TIME VALUE OF MONEY

### PRESENT VALUES

- **SINGLE AMOUNT:** Present Value (PV) of a lump sum ( $FV_n$ ) given at the end of  $n$  periods at an interest rate of  $r$  %.
- Discounted once per period:  $PV = \frac{FV}{(1+r)^n}$
- Discounted " $m$ " times per period:  $PV = \frac{FV_n}{(1+r/m)^{nm}}$
- Discounted continuously:  $PV = FV_n \times e^{-rt}$  ( $e$  = base of natural logarithms)
- **ANNUITIES**
- **Ordinary Annuity** - Present value of an ordinary annuity (PVA) of PMT per period for  $n$  periods at  $r$  % per period:
 
$$PVA = \sum_{t=1}^n \frac{PMT}{(1+r)^t} = \frac{PMT}{r} \left[ 1 - \frac{1}{(1+r)^n} \right]$$
- **Annuity Due** - Present value of an annuity due (PVD) of  $n$  cash flows (PMT) at  $r$  % per period:
 
$$PVD = \sum_{t=0}^{n-1} \frac{PMT}{(1+r)^t} = \frac{PMT}{r} (1+r) \left[ 1 - \frac{1}{(1+r)^n} \right]$$
- **Perpetuity:** Present value of a perpetuity (PVP) of PMT per period at  $r$  % per period:  $PVP = \frac{PMT}{r}$
- **SERIES OF CASH FLOWS** - Present value of a series of cash flows ( $CF_t$ ) at times,  $t = 1, 2, \dots, n$ , at  $r$  % per period:
 
$$PV = \sum_{t=1}^n \frac{CF_t}{(1+r)^t} = \frac{CF_1}{(1+r)} + \frac{CF_2}{(1+r)^2} + \dots + \frac{CF_n}{(1+r)^n}$$

### FUTURE VALUES

- **SINGLE AMOUNT:** Future value at the end of  $n$  periods ( $FV_n$ ) of a present amount (PV) invested today at  $r$  % per period.
- Compounded once per period:  $FV_n = PV(1+r)^n$
- Compounded  $m$  times per period:
 
$$FV_n = PV(1 + \frac{r}{m})^{nm}$$
- Compounded continuously:  $FV_n = PVe^{rt}$
- **ANNUITIES**
- **Ordinary Annuity** - Future value at the end of  $n$  periods of an ordinary annuity (FVA) of PMT per period for  $n$  periods at  $r$  % per period:
 
$$FVA = \sum_{t=1}^n PMT(1+r)^{t-1} = \frac{PMT}{r} \left[ (1+r)^n - 1 \right]$$
- **Annuity Due** - Future value at the end of  $n$  periods of an annuity due of PMT per period at  $r$  % per period:
 
$$FVD = \sum_{t=0}^{n-1} PMT(1+r)^t = \frac{PMT}{r} \left[ (1+r)^n - 1 \right] (1+r)$$
- **SERIES OF CASH FLOWS** - Future value at the end of  $n$  periods of a series of cash flows,  $CF_t$ , at times,  $t = 1, 2, \dots, n$ :
 
$$FV = \sum_{t=1}^n CF_t(1+r)^{n-t} = CF_1(1+r)^{n-1} + CF_2(1+r)^{n-2} + \dots + CF_n$$

### EFFECTIVE ANNUAL RATE (EAR)

$$EAR = \left( 1 + \frac{\text{nominal rate}}{m} \right)^m - 1$$

where  $m$  = number of compounding intervals.

### ANNUAL PERCENTAGE RATE (APR)

APR = rate per period  $\times$  periods per year

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**RM Cervero**



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Xianchang Chen, 1967

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