

# Section Five

## Financial Ratios



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## Profitability Ratios:

Ratios that reflect the net result of all of the firm's financing policies and operating decisions.

1. Operating Margin
2. Profit Margin
3. Return on Total Assets
4. Basic Earning Power (BEP) ratio
5. Return on Common Equity



## 1. Operating Margin:

This ratio measures operating income, or EBIT, per dollar of sales.

$$\text{Operating Margin ratio} = \frac{EBIT}{Sales}$$

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## Example 1:

Suppose a company generated \$ 10 million in revenue with \$ 4 million in COGS and \$ 2 million in operating expenses, the operating profits is \$ 4 million. Calculate the operating margin for the company.

### Answer:

Operating profit (EBIT) = \$ 10 million - \$ 4 million - \$ 2 million = \$ 4 million

$$\text{Operating Margin (\%)} = \frac{EBIT}{Sales} = \frac{\$ 4 \text{ million}}{\$ 10 \text{ million}} = 40 \%$$



## 2. Profit Margin:

This ratio measures net income per dollar of sales.

$$\text{Profit Margin} = \frac{\text{Net Income}}{\text{Sales}}$$



## Example 2:

Imagine a company that reports the following numbers on its income statement:

Revenue = \$ 100000

Operating cost = \$ 20000

COGS = \$ 10000

Tax Liability = \$ 14000

Calculate The Profit Margin

**Answer:**

$$\text{Profit Margin} = \frac{\text{Net Income}}{\text{Sales}} = \frac{100000 - 20000 - 10000 - 14000}{100000} = \frac{56000}{100000} = 56\%$$

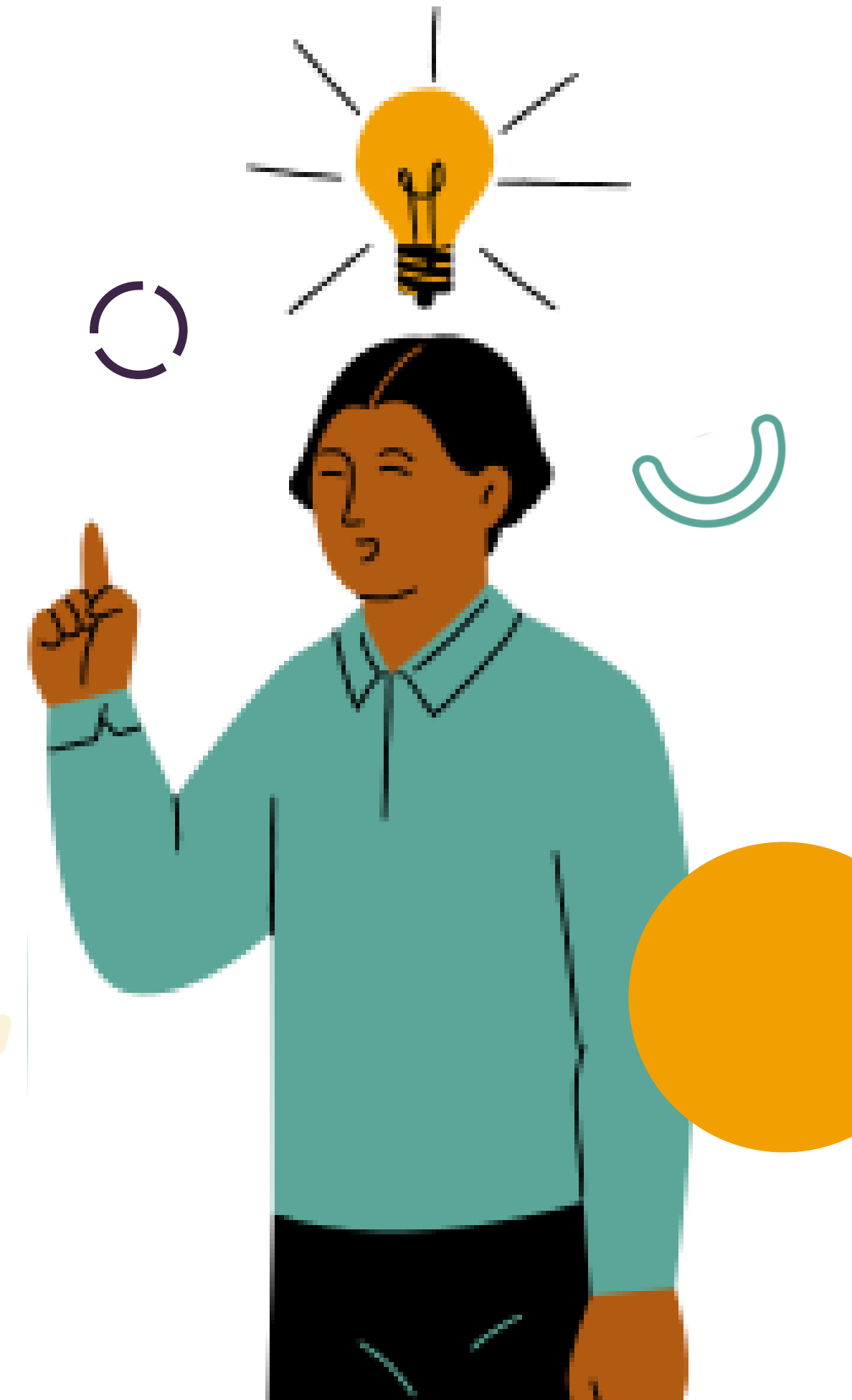


### 3. Return on Total Assets:

$$\text{Return on Total Assets} = \frac{\text{Net Income}}{\text{Total Assets}}$$

#### Example 3:

	Company 1	Company 2
Net Income	50000000	10000000
Start of period assets	505000000	14000000
End of period assets	495000000	16000000
Average Assets	500000000	15000000
ROA	10.0 %	66.7 %



## 4. Basic Earning Power (BEP) ratio:

This ratio indicates the ability of the firm's assets to generate operating income.

$$\text{Basic Earning Power (BEP)} = \frac{EBIT}{\text{Total Assets}}$$

### Example 4:

Suppose you're tasked with calculating the basic earnings power ratio of a company given the following data:

Revenue = \$ 50 million

COGS = \$ 20 million

R & D = \$ 15 million

Current assets = \$ 40 million

Non-current assets = \$ 85 million

**Answer:**

$$\text{Basic Earning Power (BEP)} = \frac{EBIT}{\text{Total Assets}} = \frac{50 - 20 - 15}{125} = 0.12$$





## 5. Return on Common Equity (ROE):

This ratio measures the rate of return on common stockholders' investment

$$\text{ROE} = \frac{\text{Net Income}}{\text{Common Equity}}$$

### Example 5:

Imagine a company has the following financial information:

Financial period: April 2023 – March 2024

Net income: \$ 100000, Total assets: \$ 500000, Total liabilities: \$ 100000

Calculate the ROE ratio

**Answer:**

Equity = Assets – Liabilities

Equity = 500000 – 100000 = 400000

$$\text{ROE} = \frac{\text{Net Income}}{\text{Common Equity}} = \frac{100000}{400000} = 0.25$$



# Market Value Ratios:

Ratios that relate the firm's stock price to its earnings and book value per share.

1. Price/ Earnings Ratio
2. Market/ Book Ratio

# 1. Price/ Earnings Ratio

The ratio of the price per share to earnings per share; shows the dollar amount investors will pay for \$1 of current earnings.

$$= \frac{\text{Price per share}}{\text{Earnings per share}}$$



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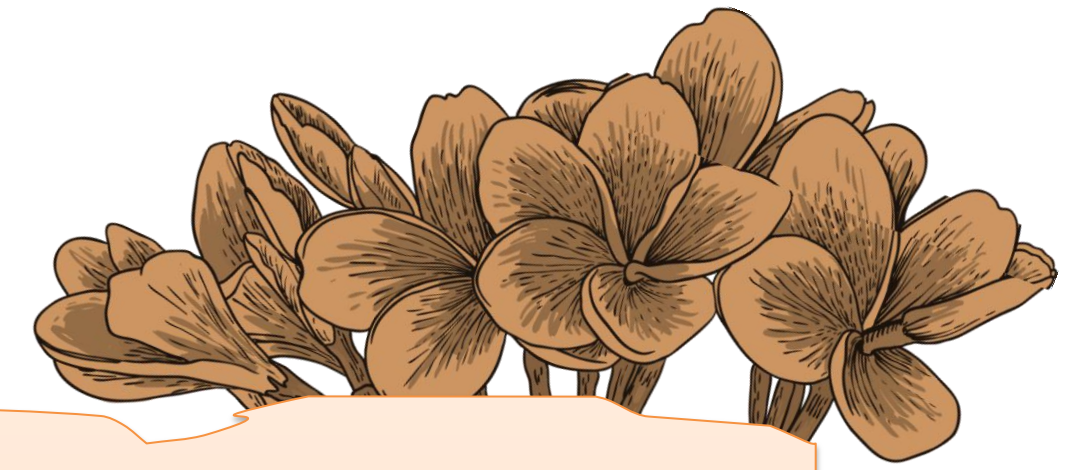


## Example 6:

Suppose a company's last closing share price is \$ 20 and its earning per share in the last twelve months is \$ 2.  
Calculate Price- Earning Ratio.

***Answer:***

$$= \frac{\text{Price per share}}{\text{Earnings per share}} = \frac{20}{2} = 10.0 \times$$





## 2. Market/ Book Ratio:

The ratio of a stock's market price to its book value gives another indication of how investors regard the company.

$$\text{Book Value Per Share} = \frac{\text{Common Equity}}{\text{Shares Outstanding}}$$

$$\text{Market/ Book (M/B) Ratio} = \frac{\text{Market Price per Share}}{\text{Book Value per Share}}$$

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