FINANCIAL RATIOS

ROUND ALL ANSWERS TO TWO DECIMALS
UNLESS REQUESTED OTHERWISE IN THE PROBLEM

LIQUIDITY RATIOS (and Working Capital)

You want current and quick ratios to be > 1

Current Ratio = <u>Current Assets</u> Current Liabilities

Quick Ratio = <u>Current Assets - Inventory</u>

Current Liabilities

Cash Ratio = Cash + Cash Equiv. + Investments
Current Liabilities

Working = Current - Current Capital Assets Liabilities

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ASSET MANAGEMENT RATIOS

You want turnover ratios to be as high as possible

Inventory = <u>Sales (or Revenues)</u> Turnover Ratio Inventory

Total Assets = <u>Sales (or Revenues)</u> Turnover Ratio Total Assets

Accounts = Sales (or Revenues)
Receivable Accounts Receivable*
Turnover Ratio

* same as net receivables

DEBT MANAGEMENT RATIOS

You want debt ratio to be low and TIE ratio to be high

Debt = <u>Total Debt</u>* * all payables plus Ratio Total Assets long-term debt

Times Interest = Income from Operations
Earned Ratio Interest Expense

PROFITABILITY RATIOS

You want all profitability ratios to be high

Profit Margin = <u>Net Income</u> on Sales Ratio Sales (or Revenues)

ROA = Return on = <u>Net Income</u> Assets Ratio Total Assets

(ROA is sometimes called "Return on Investment")

ROE = Return on = Net Income Equity Ratio Stockholders' Equity

MARKET PERFORMANCE RATIOS

You want EPS to be high; P/E depends on the industry

EPS = Earnings = <u>Net Income</u> Per Share # of Shares Issued

P/E = Price Earnings = <u>Stock Price</u> Ratio Ratio Earnings Per Share

Market to = <u>Market Stock Price</u> Book Ratio = <u>Morket Stock Price</u> Book Value Per Share*

* book value per share is calculated by dividing stockholders' equity by the number of shares issued.



| SAMPLE BALANCE SHEET | | | | |
|--|------------------|--|--|--|
| ASSETS | | | | |
| <u>Current Assets</u> | | | | |
| Cash | \$ 100 | | | |
| Accounts Receivable | 200 | | | |
| Pre-Paid Expenses | 100 | | | |
| Inventory | 150 | | | |
| Supplies | <u>50</u> | | | |
| Total Current Assets | 600 | | | |
| Long-Term Assets | | | | |
| Equipment | 650 | | | |
| Less: Accumulated Depreciation | <u>(500)</u> | | | |
| Total Long-Term Assets | <u>9,400</u> | | | |
| Total Assets | <u>\$ 10,000</u> | | | |
| LIABILITIES AND OWNERS' EQUITY | | | | |
| <u>Current Liabilities</u> | | | | |
| Accounts Payable* | \$ 900 | | | |
| Other Payables* | <u>550</u> | | | |
| Total Current Liabilities | 1,600 | | | |
| Long-Term Liabilities | | | | |
| Long-Term Debt* | 4,500 | | | |
| Other LT Liabilities | <u>1,000</u> | | | |
| Total Long-Term Liabilities | <u>5,500</u> | | | |
| Stockholders' Equity Common Stock | 2,000 | | | |
| Retained Earnings | 900 | | | |
| Total Stockholders' Equity | <u>2,900</u> | | | |
| Total Liabilities & Stockholders' Equity | \$ 10,000 | | | |
| * Included in Total Debt | | | | |
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| SAMPLE INCOME STATEMENT | | | | |

| SAMPLE INCOME STATEMENT | | | |
|-------------------------|------------|----|--------------|
| Sales (or Revenues) | | \$ | 1,000 |
| Cost of Goods Sold | | | <u>300</u> |
| Gross Profit | | | 700 |
| Operating Expenses: | | | |
| Expense #1 | 25 | | |
| Expense #2 | 50 | | |
| Interest Expense | <u>125</u> | | <u>200</u> |
| Income from Operations | | | 500 |
| Unusual Items: Gains or | (Losses) | | <u>(100)</u> |
| Income Before Taxes | | | 400 |
| Income Tax Expense | | | <u>100</u> |
| Net Income | | 3 | 300 |