

**Financial and  
Legal Management**

**Chapter 8**

Accounting Records and  
Financial Statements

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**Small Business Accounting**

- **Information**
  - Is data from source documents (like invoices, sales receipts, bills, and checks) that is organized in a meaningful and useful way.
  - Is used by managers to make business decisions.
- **The Importance of Accounting**
  - The accounting process helps translate numbers—the language of business—into plain English.

2 Source: Hatten, Small Business Management, 4th Edition

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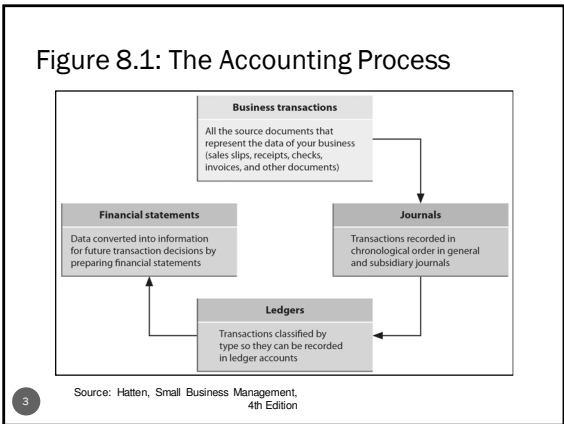
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3 Source: Hatten, Small Business Management, 4th Edition

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## Small Business Accounting (cont'd)

- Starting the Accounting Process
  - Purchase a simple accounting software package.
  - Use the services of a professional who specializes in developing accounting systems for small businesses.
  - Consult an accountant about the firm's requirements under the Sarbanes-Oxley Act.
- Importance of Financial Records
  - Prevent mismanagement
  - Focus on key issues and threats

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Source: Hatten, Small Business Management, 4th Edition

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## How Important Are Financial Records?

- Accurate Information for Management
  - Value and age of accounts receivable
  - How quickly and what inventory is turning over
  - How much debt is owed and when it is due
  - How much is owed in taxes and FICA
- Banking and Tax Requirements
  - Information on financial statements is needed to prepare tax returns.
  - Bankers and investors use financial statements to evaluate the condition of the business.

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Source: Hatten, Small Business Management, 4th Edition

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## Small Business Accounting Basics

- Double-Entry Accounting
  - Transactions are recorded as debits and credits in both an asset account and a liability or owner's equity account such that the accounts will balance.
- Asset
  - A resource owned and with a useful benefit
- Liability
  - A debt owed to another organization or individual
- Owner's Equity
  - What the business owner would receive if all assets were sold and all of the liabilities were paid.

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Source: Hatten, Small Business Management, 4th Edition

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## Small Business Accounting Basics (cont'd)

- Single Entry Accounting
  - Records income and expenses in a running log—“checkbook accounting”.
  - Is a simple but not a self-balancing system.
  - Does not produce a balance sheet, an income statement, or other financial records.

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Source: Hatten, Small Business Management, 4th Edition

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## Small Business Accounting Basics (cont'd)

- Accounting Equations
  - Balance Sheet:
    - $\text{Assets} = \text{Liabilities} + \text{Owner's Equity}$
  - Income Statement:
    - $\text{Profit} = \text{Revenue} - \text{Expenses}$
  - Cash Flow Statement:
    - $\text{Cash flow} = \text{Receipts} - \text{Disbursements}$

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Source: Hatten, Small Business Management, 4th Edition

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## Small Business Accounting Basics (cont'd)

- Generally Accepted Accounting Principles (GAAP)
  - Standards established by the Financial Accounting Standards Board (FASB) so that all businesses produce comparable financial statements.
  - Flexibility in GAAP methods is acceptable as long as consistency is maintained within the business.

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Source: Hatten, Small Business Management, 4th Edition

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## Small Business Accounting Basics (cont'd)

- **Journal**
  - A chronological record of transactions (debit and credits) of a business
    - Sales, purchases, cash receipts, cash disbursements
- **General Ledger**
  - A record of transactions divided into accounts; usually compiled at the end of each month
  - At the end of the accounting period or fiscal year, each individual account is closed and totaled in the general ledger.

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Source: Hatten, *Small Business Management*, 4th Edition

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## Financial Statements

- **Income Statement**
  - Shows revenue and expenses (profit and loss) of a firm for a given period:
    - Net Sales
    - Cost of Goods Sold
    - Gross Margin
    - Expenses
    - New Income (or loss)
  - **Equation:**
    - Profit = Revenue – Expenses
  - **Common-size financial statement**
    - A percentage breakdown of each item of expense as the item relates to sales.

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Source: Hatten, *Small Business Management*, 4th Edition

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## Figure 8.2: Stereo City Income Statement

		Percentage of Sales
<b>INCOME</b>		
Net Sales	\$450,000	100.00
Cost of Goods Sold	270,000	60.00
<b>GROSS PROFIT ON SALES</b>	<b>\$180,000</b>	<b>40.00</b>
<b>EXPENSES</b>		
Selling Expense	\$ 12,000	2.67
Advertising	10,000	2.22
Delivery and Freight	20,000	4.44
Sales Salaries	1,000	0.22
Miscellaneous Selling Expenses		
Administrative Expenses		
Licenses	\$ 150	0.03
Insurance	24,000	5.33
Interest	38,000	8.44
Payroll Taxes	4,300	1.00
Rent/Manager	12,400	2.76
Utilities	4,000	0.89
Legal Fees	1,500	0.33
Depreciation	42,000	9.33
Miscellaneous Administrative Expenses	900	0.20
<b>TOTAL EXPENSES</b>	<b>\$117,250</b>	<b>26.06</b>
<b>INCOME FROM OPERATIONS</b>	<b>\$ 62,750</b>	<b>13.94</b>
<b>OTHER INCOME</b>		
Interest Income	\$ 300	0.07
<b>OTHER EXPENSES</b>		
Interest Expense	\$ 11,000	2.44
<b>NET PROFIT BEFORE TAXES</b>	<b>\$ 48,050</b>	<b>10.68</b>
<b>INCOME TAXES</b>	<b>\$ 3,200</b>	<b>0.71</b>
<b>NET PROFIT LOSS AFTER TAXES</b>	<b>\$ 44,850</b>	<b>10.00</b>
<b>NOTE:</b>		
Cash Flow from Operations Equals Net Profit or Loss After Taxes plus Depreciation	\$ 46,650	

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Source: Hatten, *Small Business Management*, 4th Edition

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## Financial Statements (cont'd)

- Balance Sheet
  - Provides a “snapshot” of the business at a given moment.
  - Sections include:
    - Assets
    - Liabilities and owner's equity (capital)
  - Equation:
    - Assets = Liabilities + Capital
  - Common-size balance sheet
    - Percentages of assets, liabilities and equity indicate accounts and areas that are out of line compared to industry averages.

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Source: Hatten, Small Business Management, 4th Edition

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### Figure 8.3a: Stereo City Balance Sheet

ASSETS		Percentage of Total Assets
Current Assets:		
Cash	\$ 3,500	1.08
Accounts Receivable	12,000	3.71
Inventories	125,000	38.64
Prepaid Expenses	5,000	1.55
Short-Term Investments	10,000	3.09
<b>Total Current Assets</b>	<b>\$155,500</b>	<b>48.07</b>
Fixed Assets:		
Building	\$150,000	46.37
Equipment	25,000	7.73
Leasehold Improvements	20,000	6.18
Other Fixed Assets	15,000	4.64
<b>Gross Fixed Assets</b>	<b>\$210,000</b>	<b>64.91</b>
Less: Accumulated Depreciation	42,000	12.98
<b>Net Fixed Assets</b>	<b>\$168,000</b>	<b>51.93</b>
<b>Total Assets</b>	<b>\$323,500</b>	<b>100.00</b>

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Source: Hatten, Small Business Management, 4th Edition

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### Figure 8.3b: Stereo City Balance Sheet (cont'd)

LIABILITIES AND OWNERS' EQUITY		Percentage of Liability and Equity
Current Liabilities:		
Accounts Payable	\$ 75,000	23.18
Accruals	7,500	2.32
Current Portion of Long-Term Debt	17,500	5.41
Other Current Liabilities	5,000	1.55
<b>Total Current Liabilities</b>	<b>\$105,000</b>	<b>32.46</b>
Long-Term Liabilities:		
Mortgage Loan	\$ 93,000	28.75
Term Loan	39,500	12.21
<b>Total Long-Term Liabilities</b>	<b>\$132,500</b>	<b>40.96</b>
<b>Total Liabilities</b>	<b>\$237,500</b>	<b>73.42</b>
Owners' Equity		
Paid-in Capital	\$ 75,000	23.18
Retained Earnings	11,000	3.40
<b>Total Owners' Equity</b>	<b>\$ 86,000</b>	<b>26.58</b>
<b>Total Liabilities and Owners' Equity</b>	<b>\$323,500</b>	<b>100.00</b>

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Source: Hatten, Small Business Management, 4th Edition

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## Liquidity Ratios

- **Current Ratio**
  - Measures the number of times the firm can cover its current liabilities with its current assets.
    - Current ratio =  $\frac{\text{Current assets}}{\text{Current liabilities}}$
  - Assumes that both accounts receivable and inventory can easily be converted to cash.
- **Interpretation:**
  - Ratios of 1.0 or less are considered low and indicative of financial difficulties.
  - Ratios of more than 2.0 often suggest excessive liquidity that may be adverse to the firm's profitability (i.e. funds not invested.)

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Source: Hatten, Small Business Management, 4th Edition

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## Liquidity Ratios (cont'd)

- **Quick Ratio**
  - Measures the firm's ability to meet its current obligations with the most liquid of its current assets.
    - Quick ratio =  $\frac{\text{Current assets} - \text{Inventory}}{\text{Current liabilities}}$
  - Assumes that a liquid asset can easily be converted to cash without excessive loss in value.
- **Interpretation:**
  - Ratios of less than 1.0 can indicate the need for additional sources of liquidity.

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Source: Hatten, Small Business Management, 4th Edition

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## Activity Ratios (cont'd)

- **Inventory Turnover**
  - Measures the liquidity of the firm's inventory—how quickly goods are sold and replenished.
    - Inventory turnover =  $\frac{\text{Cost of goods sold}}{\text{Inventory}}$
  - Assumes that a high inventory turnover ratio generally implies efficient inventory management.

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Source: Hatten, Small Business Management, 4th Edition

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## Activity Ratios (cont'd)

- Average Collection Period
  - Measures how long it takes a firm to convert a credit sale (internal store credit, not credit card sales) into a usable form (cash).
  - Average collection period =  $\frac{\text{Accounts receivable}}{\text{Average sales per day}}$
- Assumptions:
  - High average collection periods usually indicate many uncollectible receivables.
  - Low average collection periods may indicate overly restrictive credit-granting policies.

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Source: Hatten, Small Business Management, 4th Edition

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## Activity Ratios (cont'd)

- Fixed Asset Turnover
  - Measures how efficiently a firm is using its assets to generate sales.
  - Fixed asset turnover =  $\frac{\text{Sales}}{\text{Net fixed assets}}$
- Assumptions:
  - The higher the ratio, the more effectively the firm is using assets to generate sales.
  - A low ratio indicates ineffective marketing efforts or that the firm's core business areas are not currently feasible.

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Source: Hatten, Small Business Management, 4th Edition

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## Activity Ratios (cont'd)

- Total Asset Turnover
  - Measures how efficiently a firm uses all of its assets to generate sales.
  - Total asset turnover =  $\frac{\text{Sales}}{\text{Total assets}}$
- Assumptions:
  - A high ratio generally reflects good overall management.
  - A low ratio may indicate flaws in the firm's overall strategy, poor marketing efforts, or improper capital expenditures.

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Source: Hatten, Small Business Management, 4th Edition

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## Leverage Ratios (cont'd)

- Debt Ratio
  - Measures the proportion of a firm's total assets that is acquired with borrowed funds.
  - Debt ratio =  $\frac{\text{Total debt}}{\text{Total assets}}$
- Assumptions:
  - A high ratio indicates a more aggressive approach to financing and is evidence of a high risk, high-expected-return strategy.
  - A low ratio indicates a more conservative approach to financing.

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Source: Hatten, Small Business Management, 4th Edition

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## Leverage Ratios (cont'd)

- Times Interest Earned
  - Calculates the firm's ability to meet its interest requirements.
  - Time interest earned =  $\frac{\text{Operating income}}{\text{Interest expense}}$
- Assumptions
  - A high ratio indicates a low-risk situation but indicate an inefficient use of leverage.
  - A low ratio calls for immediate action to be taken so that no debt payments go into default status.

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Source: Hatten, Small Business Management, 4th Edition

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## Profitability Ratios (cont'd)

- Net Profit Margin
  - Measures the percentage of each sales dollar that remains as profit after all expenses, including taxes, have been paid.
  - Net profit margin =  $\frac{\text{Net income}}{\text{Sales}}$
- Assumption:
  - A low ratio indicates that expenses are too high relative to sales.

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Source: Hatten, Small Business Management, 4th Edition

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## Profitability Ratios (cont'd)

- Return on Assets (Return on Investment)
  - Measures the firm's effectiveness in generating profits from its available assets.
    - Return on assets =  $\frac{\text{Net profit after taxes}}{\text{Total assets}}$
  - Assumption:
    - A high ratio shows effective management and good chances for future growth.

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Source: Hatten, Small Business Management, 4th Edition

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## Profitability Ratios (cont'd)

- Return on Equity
  - Measures the return the firm earned on its owner's investment in the firm.
    - Return on equity =  $\frac{\text{Net profit after taxes}}{\text{Owner's equity}}$
  - Assumption:
    - The higher the ratio, the better off financially the owner will be—highly affected by the amount of financial leverage (borrowed money) used by the firm.

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Source: Hatten, Small Business Management, 4th Edition

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**Table 8.1: Comparing Company and Industry Ratios**

	Stereo City	Industry
<b>Liquidity</b>		
Current Ratio	1.48	1.60
Quick Ratio	0.29	0.50
<b>Activity</b>		
Average Collection	9.7	8.0
Total Asset Turnover	1.4	4.2
<b>Leverage</b>		
Debt Ratio	73.0	61.5
Times Interest Earned	1.5	6.1
<b>Profitability</b>		
Return on Assets*	2.5	6.2

\*Uses pretax Profit  
SOURCE: Financial Studies of the Small Business, 17th ed. (Winter Haven, FL: Financial Research Associates, 1994).

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Source: Hatten, Small Business Management, 4th Edition

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## Managing Cash Flow

- Cash Flow
  - The sum of net income plus any noncash expenses, such as depreciation and amortization.
  - The difference between the actual amount of cash a company brings in and the actual amount of cash a company disburses in a given time period.
- Goal
  - To have enough cash on hand when needed.
- Basic Strategy
  - To maximize the use of cash by ensuring consistent cash inflows and a disciplined approach to outflows.

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Source: Hatten, *Small Business Management*, 4th Edition

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## Cash Flow Fundamentals

- Understanding the Cash Flows
  - Why do we need cash flow?
  - How is cash flow generated?
  - How do firms become insolvent even though they are profitable?



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Source: Hatten, *Small Business Management*, 4th Edition

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## Cash Flow Fundamentals (cont'd)

- Motives for Having Cash
  - To make transactions—the ability to pay the bills (obligations) incurred by the business.
  - To protect against unanticipated problems—continued insolvency leads directly to bankruptcy.
  - To invest in opportunities as they arise.
- Cash-To-Cash Cycle
  - Period of time from when money is spent on raw materials until it is collected on the sale of a finished good.
  - Cash is replenished immediately by cash sales, but receivables (credit sales) must be collected to secure cash.

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Source: Hatten, *Small Business Management*, 4th Edition

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Table 8.3: Macro-Aging Table

Age of Receivables	Percentage
0-30 days	25
31-60 days	50
61-90 days	20
Over 90 days	5

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Table 8.4: Micro-Aging Table

Customer	Amount	Current	Past-Due Days			
			1-30	31-60	61-90	+90
Aardvark Supply	\$1,500	\$1,000	\$200	\$500	\$250	
Beaver Trucking	2,250					
Canary Labs	1,000	500	500			
...						
Total	11,000	5,000	750	3,000	2,250	
Percentage	100	45	7	27	21	

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Source: Hatten, Small Business Management, 4th Edition

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### Strategies for Cash Flow Management: Accounts Receivable

- Establish sound credit practices.
- Process orders quickly.
- Prepare the invoice the same day as the order is received.
- Mail the invoice the same day it is prepared.
- Offer discounts for prompt payment.
- Aggressively follow up on past due accounts.

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Source: Hatten, Small Business Management, 4th Edition

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### Strategies for Cash Flow Management: Accounts Receivable (cont'd)

- Deposit payments promptly.
- Negotiate better terms from suppliers and banks.
- Keep a tight control on inventory.
- Review and reduce expenses.
- Pay bills on time, but not before they are due.
- Be smart in designing your invoice.

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Source: Hatten, Small Business Management, 4th Edition

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### Strategies for Cash Flow Management: Managing Inventory

- Compute inventory turnover ratio to determine how much inventory is needed.
- Commit just enough cash to inventory to meet demand.

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Source: Hatten, Small Business Management, 4th Edition

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### Strategies for Cash Flow Management: Banks

- Request an Account Analysis to Determine:
  - Banking services used and charges for each service
  - Balances in all accounts and required minimum balances
  - Excess account balances on deposit
  - How quickly checks deposited are available as cash

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Source: Hatten, Small Business Management, 4th Edition

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