

FLAT WORLD





Chapter 12

The Role Of Accounting In Business

Chapter Objectives

- Define accounting and identify its uses
- Understand the three basic financial statements
- Apply breakeven analysis
- Understand cash-basis vs. accrual
- Evaluate a company's performance

Stakeholders

"...parties who are interested in the activities of the business because they're affected by them..."



Accounting

"...measuring and summarizing business activities, interpreting financial statements, and communicating the results to management and other decision makers."

Fields of Accounting

 Management Accounting – provides information to decision makers inside the organization to help operate the business

 Financial Accounting – furnishes information to individuals and groups inside/outside the organization to assess the firm's financial performance

Management Accounting

Provides information and analysis to decision makers inside the organization to help them operate the

business



Financial Accounting

- Prepare Statements
 - Income Statement
 - Balance Sheet
 - Statement of Cash Flow

 Using Generally Accepted Accounting Principles

Users Of Accounting Information

Owners & Managers

Government Agencies









Other Users

Investors & Creditors

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Understanding Financial Statements

- Income Statement What sales and expenses are and whether a profit is made
- Balance Sheet Indicates assets and liabilities and amount invested in company

Statement of Cash Flows – Shows how much cash

flows in and out



Income Statement

- Revenues (or Sales)
- Cost of Goods Sold
- Gross Profit
- Operating Expenses
- Net Income (or Loss)



Stress-Buster Income Statement

Stress-Buster Company Income Statement Month Ended September 30, 20X1		
Sales (100 X \$10)		\$1,000
Less Cost of goods sold (100 X \$6) Gross profit (100 X \$4)		<u>600</u>
Less Operating expenses		
Salaries	240	
Advertising	40	
Table rental	20	
200.00	300	141123
Net income (profit)		\$100

Proposed Income Statement #1

Stress-Buster Company

Income Statement
Month Ended September 30, 20X1
[If Cost of goods sold is \$5 per unit]

Sales (100 X \$10) Less Cost of goods sold (100 X \$5	5)	\$1,000 500
Gross profit (100 X \$5)	,	500
Less Operating expenses		
Salaries	240	
Advertising	40	
Table rental	20	
	300	
Net income (profit)		\$200

Proposed Income Statement #2

Stress-Buster Company

Income Statement
Month Ended September 30, 20X1
[If Sales increase to 150 units]

Sales (150 X \$10)		\$1,500
Less Cost of goods sold (150 X \$6)		900
Gross profit (150 X \$4)		600
Less Operating expenses		
Salaries	240	
Advertising	40	
Table rental	20	
	300	
Net income (profit)		\$300

Breakeven Analysis

"...To break even, total sales revenue must exactly equal all your expenses..."

- Fixed Costs
- Variable Costs
- Contribution MarginPer Unit
- Breakeven Point In Units



Proposed Income Statement #3

Stress-Buster Company

Income Statement
Month Ended September 30, 20X1
[At breakeven level of sales = 75 units]

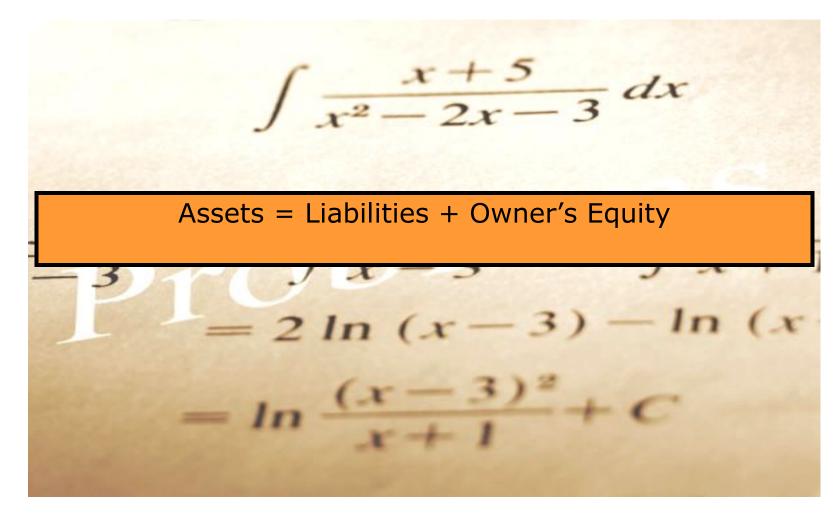
Sales (75 X \$10)		\$ 750
Less Cost of goods sold (75 X \$6)		450
Gross profit (75 X \$4)		300
Less Operating expenses		
Salaries	240	
Advertising	40	
Table rental	20	
	300	
Net income (profit)		<u> </u>

Balance Sheet

"...tells what you have (and where it came from) at a specific point in time..."

- Assets Business resources
- Liabilities Debts owed to outside entities
- Owner's Equity Amount invested

Accounting Equation



Stress-Buster Balance Sheet

Stress-Buster Company

Balance Sheet As of September 1, 20X1

Assets

Cash
Liabilities and Owner's equity
Liabilities
Owner's equity

Total Liabilities and Owner's equity

\$600
\$600

Stress-Buster Balance Sheet #2

retained)

Stress-Buster Company

Balance Sheet As of September 30, 20X1

Assets	
Cash (original \$600	
plus \$100 earned)	\$700
Liabilities and Owner's equity	· -
Liabilities	400
Owner's equity (\$200 invested	
by owner plus \$100 profits	

Total Liabilities and Owner's equity \$700

Accrual Accounting

"...accountant records a transaction when it occurs..."

- Account Receivable
- Account Payable
- Inventory



Classified Balance Sheet

- Assets
 - Current—Convert to cash within a year
 - Long-Term—Hold for more than a year
- Liabilities
 - Current—Pay off within a year
 - Long-Term—Not due for more than a year

College Shop Balance Sheet

The College Shop

Balance Sheet As of January 1, 20X1

Assets	
Current assets	
Cash	\$ 50,000
Inventory	75,000
Long-term assets	
Furniture, displays,	
and equipment	150,000
Total Assets	\$275,000
Liabilities and Owner's equity	
Current liabilities	
Loan payable (due this year)	\$ 25,000
Long-term liabilities	18 18 18 18 18 18 18 18 18 18 18 18 18 1
Loan payable (due in 5 years)	100,000
Owner's equity	150,000
Owner 5 equity	100,000

College Shop Income Statement

The College Shop

Income Statement Year Ended December 31, 20X1

Sales Less Cost of goods sold		\$500,000 275,000
Gross profit		225,000
Less Operating expenses		
Salaries and employee		
benefits	75,000	
Depreciation (\$150,000/5)	30,000	
Rent and utilities	20,000	
Advertising	20,000	
Other (insurance, office		
expenses, miscellaneous)	30,000	
Total Operating expenses	175,000	
Operating income		50,000
Less Interest expense		
(8% X loans of \$125,000)		10,000
Net income before Income taxes		40,000
Less Income taxes		
(25% X income before taxes)		10,000
Net income		30,000

End-of-Year Balance Sheet

The College Shop

Balance Sheet As of December 31, 20X1

Assets	
Current assets	
Cash	\$ 70,000
Accounts receivable	90,000
Inventory	80,000
Total Current assets	240,000
Long-term assets	
Furniture, displays,	
and equipment	150,000
Less: Accumulated depreciation	(30,000)
Total Long-term assets	120,000
Total Assets	\$360,000
Liabilities and Owner's equity	
Current liabilities	
Accounts payable	\$80,000
Long-term liabilities	
Loan payable (due in 4 years)	100,000
Owner's equity	
(150,000 + 30,000)	180,000
Total Liabilities and Owner's equity	\$360,000

Statement Of Cash Flows

"...tells...where cash came from and where it went."

<u>Activities</u>:

- Operating
- Investing
- Financing



Cash Flow Statement

The College Shop

Cash Flow Statement As of December 31, 20X1

Cash inflows from Operating activities \$45,000

Cash outflows from Financing activities 25,000

Increase in cash during the year \$20,000

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Comparative Income Statement

The College Shop

Comparative Income Statement Years Ended December 31, 20X2 and 20X1

	12/31/20X2	12/31/20X1
Sales	\$600,000	\$500,000
Less Cost of goods sold	387,000	275,000
Gross profit	213,000	225,000
Less Operating expenses	180,000	175,000
Operating income	33,000	50,000
Less Interest	10,000	10,000
Less Income taxes	5,000	10,000
Net income	\$ 18,000	\$ 30,000

Income Statement With Vertical Percentage Analysis

The College Shop

Comparative Income Statement Years Ended December 31, 20X2 and 20X1 [Using vertical percentage analysis showing each item as a % of sales]

	12/31/	/20X2	12/31/	20X1
	Amount	Percent	Amount	Percent
Sales	\$600,000	100	500,000	100
Less Cost of goods sold	387,000	64	275,000	_55
Gross profit	213,000	36	225,000	45
Less Operating expenses	180,000	30	175,000	35
Operating income	33,000	6	50,000	10
Less Interest	10,000	2	10,000	2
Less Income taxes	5,000	_1	10,000	2
Net income	\$ 18,000	<u>3%</u>	\$ 30,000	<u>6%</u>

Ratio Analysis



Profit Margin

How much of each sales dollar is left after certain costs have been covered

Management Efficiency

measure a company's ability to use its assets and manage its liabilities

- Management Effectiveness
 How well the company is performing with the invested money
- Financial Condition
 Assess firm's financial strength

Gross Profit Margin

Gross Profit | = | Gross Profit | Sales





Net Profit Margin



Net Profit Sales



Comparative Balance Sheet

The College Shop

Comparative Balance Sheet
As of December 31, 20X2 and 20X1

	12/31/20X2	12/31/20X1
Assets	(. 	20-
Current assets		
Cash	\$ 76,000	\$70,000
Accounts receivable	92,000	90,000
Inventory	110,000	80,000
Total Current assets	278,000	240,000
Long-term assets		
Furniture, equipment		
net of depreciation	90,000	120,000
Total Assets	368,000	\$360,000
Liabilities and Owner's	equity	
Current liabilities		
Accounts payable	\$ 70,000	80,000
Long-term liabilities		
Loan	100,000	100,000
Total Liabilities	170,000	180,000
Owner's equity	198,000	180,000
Total Liabilities		
and Owner's equity	\$368,000	\$360,000

Inventory Turnover

http://www.investopedia.com/articles/basics/05/052005.asp?o=40186&l=dir &gsrc=999&go=investopediaSiteSearch&ap=investopedia.com

> Inventory Turnover



Sales Inventory



Return On Assets

http://www.investopedia.com/articles/basics/05/052005.asp?o=40186&l=dir &qsrc=999&qo=investopediaSiteSearch&ap=investopedia.com

Return On Assets



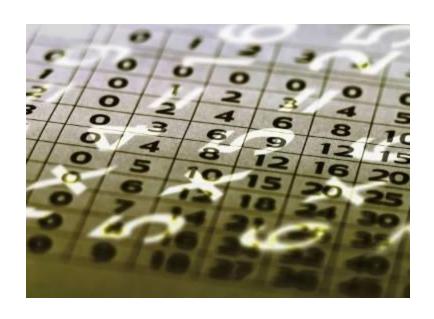
Net Profit Total Assets



Current



Current Assets Current Liabilities



Total Debt to Equity



Total Liabilities Total Equity



Interest Coverage



Operating Income Interest Expense



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In class activity:

What Are Our Ratios Trying to Tell Us?

The accountant for your company just ran into the office and told you that your *gross profit margin* increased while your *net profit margin* decreased. She also reported that while our *debt-to-equity* ratio increased, our *interest coverage* ratio decreased.

She was puzzled by the apparent inconsistencies. Help her out by providing possible explanations for the behavior of these ratios.