

Chapter Focus

• Financial statements are developed to measure financial performance and assist in the financial planning process. In this chapter we learn the basics of balance sheet, income statement, financial ratios, and budget.

Major Topics

- The Balance Sheet
 - Assets: liquid assets, lifestyle (use) assets, and investment assets
 - Liabilities: current and noncurrent liabilities
 Net worth
- The Income Statement
 - Income
 - Expenses: inflexible and flexible expenses
- Contributions to savings
- Evaluating Past Financial Performance
 Maintaining adequate liquidity
 - Avoiding excessive amounts of debt
- Achieving Goals through Budgeting
 - Preparing the annual budget
 Monitoring and controlling activities

The Personal Balance Sheet Shows assets, liabilities, and net worth (wealth) Assets: Liquid assets: cash or any other asset that can be easily converted to cash with no loss in market value. Lifestyle (use) assets: things with value that help us achieve our desired quality of life, such as a house, a car, furniture, etc.

 Investment assets: assets that provide income or increase our net worth over time.

Liabilities

- Current liabilities: a debt that must be paid within one year.
- Noncurrent liabilities: Debt obligations beyond one year.
- Net worth= assets liability

		ollege Student on 12/31/2	
Assets		Liabilities	
Cash on hand	\$30	End-of-the-month balance on Visa card	\$231
Balance in checking account	\$300	Car loan	\$4,500
Clothing inventory	\$200		
Books and school supply	\$200		
Furniture and equipment	\$250		\sim
Car	\$6,000	~	
Total assets	\$6,980	Total liabilities	\$4,731

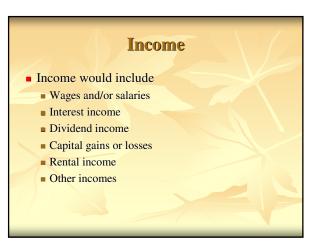
Example: Steeles'	Assets	on 12/3	01/2000
Steeles' liquid assets:			
Cash	\$	240	
Checking Account		2,400	
 Savings Account 		5,600	
42-Month CD		5,000	
Series EE Bonds		3,000	
Total	\$	16,240	
 Steeles' lifestyle (use) assets 			
Residence	\$	205,000	
Household Furnishings		20,000	
Automobiles and Camper		29,100	
Jewelry, Clothing, Stamp Coll.		5,800	
 Sporting Equipment 		600	
Riding Mower		1,000	
 Total 	\$	261,500	
 Steeles' investment assets 			
Common Stocks	\$	16,000	
Mutual Funds		6,800	
Cash Value: Life Insurance		4,000	
Cash Value: Retirement Fund		21,000	
Total	\$	47,800	

Steeles' Lia			
Current liabilities			
Unpaid Bills	\$	460	
 Credit Card Balances Due 		1,720	
Estimated Taxes Due		1,750	
 Installment Pmts Due in 1 Year 		4,424	
Total	\$	8,354	
Noncurrent liabilities			
 Mortgage Loan 	\$	152,829	
 Installment Pmts after 1 Year 		4,966	
 Loan on Life Insurance Policy 		2,000	
 Total 	s	159,795	

	Fam	ily	
Assets			
Liquid	\$	16,240	
Lifestyle		261,500	
Investment		47,800	
 Total 	\$	325,540	
 Liabilities 			
 Current 	\$	8,354	
Noncurrent		159,795	
 Total 	\$	168,149	
Net Worth = \$325	5 540 - \$1	68149 = \$157391	

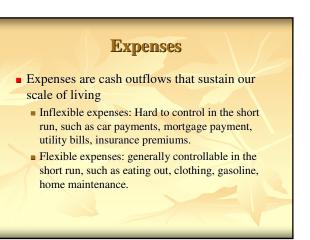
The Income Statement

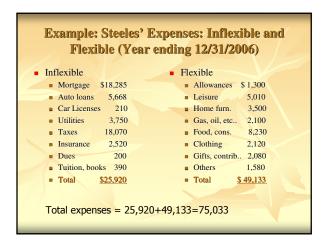
- Shows:
 - Income: a family's cash income over a given period of time, usually a year
 - Expenses: cash expenses for the same period
 - Savings: the difference between the income and the expenses
- Also measures financial success: A rising income facilitates goal achievement



Example: Steeles' income (Year ending 12/31/2006)

 Wages and salaries 	\$ 75,600	
 Interest income 	937	
 Dividends 	1,090	
 Capital gains (losses) 	0	
 Rental income 	0	
Others	0	
 Total income 	\$ 77,627	





Evaluating Past Performance

- Did your income meet or beat last year's inflation rate?
- Did your net worth increase at the same rate as inflation?
- Are you maintaining adequate liquidity?
- Are you avoiding excessive debt?

Income, Net Worth and Inflation Rate

Income evaluation

- Nominal income is actual amount received
- Real income is nominal income adjusted for inflation
- % change in nominal income is calculated
 - [this year's nominal income/last year's nominal income] 1
 - Example: [\$60,000/\$50,000] 1 = 1.20 1 = 0.20
- Compare amount to annual inflation rate: 20% versus, say, 3%. Great performance!
- Net worth evaluation
 - % change in nominal net worth compared to inflation rate

Financial Ratios

- Yardsticks to measure financial strengths and weaknesses
- Your ratios can be compared to those of other families
- Care is needed in using ratios
 - You should look at a number of ratios, rather than only one
 - Also, a ratio's trend is important

Financial Ratios Measuring Liquidity

- Liquid Assets to Take-Home Pay Ratio (0.25-0.5 acceptable):
 - Steeles: Liquid Assets/ Take-Home Pay = \$16,240/\$61,030 = 0.266 (Fair)
 - Take-Home Pay = Salaries of \$75,600 Payroll Taxes of \$14,570
- Liquidity Ratio (>1 is acceptable, the larger the better):
 - Steeles: Liquid Assets/Current Liabilities = \$16,240/\$8,354 = 1.94 (Good)

Steeles' Financial Ratios Measuring Debt Capacity

- Debt Ratio (<0.5 is acceptable, the smaller the better)
 - Steeles: Total Liabilities/Total Assets = \$168,149/\$325,540 = 0.517 (some weakness)
- Debt Service Coverage Ratio (>3.0 is acceptable, the larger the better):
 - Steeles: Take-Home Pay/Debt Service Charges
 =\$61,030/\$24,133 = 2.53 (some weakness)

So How are the Steeles Doing?

- Good liquidity (both ratios are acceptable)
- Too much debt (both ratios are less than desirable)

Achieving Goals through Budgeting

- A budget is a plan indicating financial goals and how resources will be allocated to achieve them.
- Simple rules for successful budgeting
 - Set realistic budget goals--a budget is not a straitjacket to produce only savings
 - Stick to simple procedures
 - Use the budget to control any direct expenses

Preparing an Annual Budget

- Step 1. Goals should guide you in your budget preparation. Chapter 2 is helpful in figuring out how much you need to save to achieve your goals.
- Step 2. Prepare master budget worksheet
- Step 3. Prepare monthly income and expense plan
- Step 4. Evaluate and control activities
 - Monthly
 - At Year End

Step 1. Goal Setting - Hierarchical Goals: From Concrete to Abstract

- Bottom level (Lowest)
- Consumption needs: housing, transportation, food, utilities, taxes, insurance, entertainment, clothing, saving, etc.
- Second level
 - More abstract
 - Enjoy moderate to high level of current consumption
 - College education for children
 Comfortable retirement
- Third level (Highest)
 - Most abstract
 - Financial independence

Step 2. The Master Budget Worksheet

- Has the same format as the annual income statement except here you put in what you would like to spend, not a record of how you have spent.
- Allocated amounts should reflect historical experience plus inflation adjustment
- Should focus on planned savings
- Should be realistic and achievable

Step 3. The Monthly Income and Expense Plan

- Shows cash flows by month
- Indicates months when cash flow may be negative
- Negative cash flows require management
 - Will need adequate cash reserves/ or
 - Will need to borrow

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Step 4. Monitoring and Updating Income and Expense Accounts

- Each month compare actual income or expense with budgeted amount
- The difference is an account variance
- Unfavorable expense variances need attention
 - Reduce spending in future periods to eliminate variance
 - Ideally by Year end, cumulative variance = 0

Check Out These Web Sites

- See how others are spending:
 - By income:
 - http://www.bls.gov/cex/2005/Standard/income.pdf By family size:
 - http://www.bls.gov/cex/2005/Standard/cusize.pdf
 - Visit this website for many additional spending statistics: <u>http://www.bls.gov/cex/home.htm#tables</u>

Assignment for Chapter 3

- Make a balance sheet for yourself. Calculate your assets, liabilities, and net worth.
- Figure out your liquidity ratios and debt ratios. See if you are within the acceptable ratio ranges. If yes, keep up the good work. If not, you need to pay special attention to budgeting. Make sure you set detailed goal before you do you budgeting.
- For the coming month, track your income and expenditures so you can construct a monthly income instatement (normally income statements are annual).
- At the end of the coming month, make a monthly budget for the next month based on your tracking assignment. Still track your income and spending for a month to see if how you stay within your budget.