#### Introduction to the financial Statements and Stephen's Sweet Shop Example

#### **General Purpose Financial Statements**

(required under GAAP)

- · Balance Sheet or Statement of Financial Position
- · Income Statement or Statement of Operations, Statement of Earnings, Statement of Profit and Loss, P&L Statement
- · Statement of Cash Flows

#### **An Optional Financial Statement**

(not required under GAAP but typically provided)

· Statement of Retained Earnings/Owners' Equity or Statement of Changes in Retained Earnings/Owners' Equity

Supplemental and explanatory footnotes to the financial statements are also required under GAAP to provide additional information to statement users.

#### **Balance Sheet**

**Basic Accounting Equation** 

Assets = Liabilities + Owners' Equity

Business **Amount From** Amount + **From Creditors** Resources **Owners** 

\$100,000 = \$60,000\$40,000

#### Assets

Resources (property or rights) that are owned or controlled by a company and provide probable future economic benefit.

Examples: Cash

Inventory (merchandise purchased and

held for resale) **Equipment** 

**Accounts Receivable** 

(amounts receivable from customers due to sales made on account)

**Office Supplies** Land, Buildings **Patents** 

#### Liabilities

Probable future obligations to pay assets (usually cash) or provide services to another entity. Liabilities are a company's debts.

**Examples: Accounts Payable (obligation arising from** 

the purchase of inventory on account)

Wages Payable **Utilities Payable** 

Notes Payable (typically arises from the

borrowing of cash) **Warranty Obligations** 

# **Owners' Equity**

1. Defined algebraically:

$$\begin{array}{rcl}
\text{If} & \mathbf{A} & = \mathbf{L} & + & \mathbf{OE} \\
\text{then} & \mathbf{A} & - & \mathbf{L} & = & \mathbf{OE}
\end{array}$$

2. Defined from the perspective of the amount of assets provided by the owners.

A L OE

Amount of assets or resources of the business

Amount of Assets Amount of Assets from Creditors (Debt financing)

from Owners (Equity financing)

#### **Owners Provide Assets In Two Possible Ways**

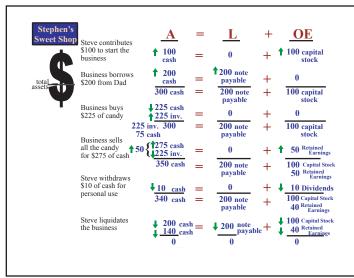
- 1. Contributing cash or other assets to the business in exchange for ownership interests evidenced by shares of stock. This amount is referred to as Contributed Capital, or simply as Capital Stock.
- 2. Allowing any increase in assets arising from profitable operations to be retained in the business rather than distributed to owners as a dividend. This amount is referred to as Retained Earnings.

OE = Capital + Retained Stock **Earnings** 

Amount of assets contributed by owners for stock

Amount of net assets created through profits and retained in the business

#### Introduction to the financial Statements and Stephen's Sweet Shop Example



#### **Another Way to Define Owners' Equity**

Owners' equity is the amount of assets that owners have a right to, or interest in, in the event of termination.

The word "equity" means a right to or interest in something. Given this definition the basic equation may be re-characterized as follows:

$$\mathbf{A} = \mathbf{L} + \mathbf{OE}$$

Creditors' Equity
(Amount due creditors in (Amount due creditors in

(Amount due creditors in the event of termination) (Amount due creditors in the event of termination)

\$340 = \$200 + \$140

Creditors have a legal priority to business assets in the event of business termination. Owners' get the total amount of assets remaining after payment of liabilities.

Therefore:

A - L = OE

**Problem: Defined Terms** 

Respond briefly to the following on a separate sheet of paper.

- A. Identify and describe the purpose of each of the required general purpose financial statements.
- B. What is the basic accounting equation?
- C. Define assets, liabilities and owner's equity.
- D. Given the following information calculate the amount of owner's equity:

 Cash
 \$ 5,000

 Accounts Receivable
 \$ 15,000

 Accounts Payable
 \$ 7,000

 Notes Payable
 \$ 50,000

 Land
 \$ 25,000

 Building
 \$ 100,000

 Equipment
 \$ 20,000

 Wages Payable
 \$ 4,000

Additional question:

What amount of the company's assets were financed through debt and what amount were financed throughh equity?

Answer: Defined Terms

A. Identify and define each of the required general purpose financial statements.

The Balance Sheet is sometimes referred to as the Statement of Financial Position because it seeks to present a company's financial position (assets, liabilities and owners' equity) at various points in time.

The Income Statement is sometimes referred to as the Statement of Operations, Statement of Earnings, Statement of Profit and Loss or simply PL Statement because it seeks to present a company's results of operations or earnings for various periods of time.

The Statement of Cash Flows seeks to present the major inflows and outflows of cash for a company for various periods of time.

Answer: Defined Terms

B. What is the basic accounting equation?

Assets = Liabilities + Owners' Equity

Answer: Defined Terms

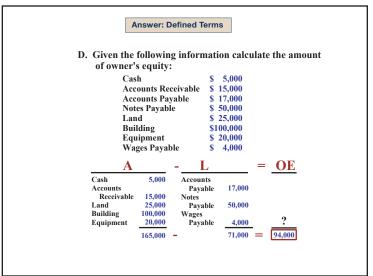
C. Define assets, liabilities and owners' equity.

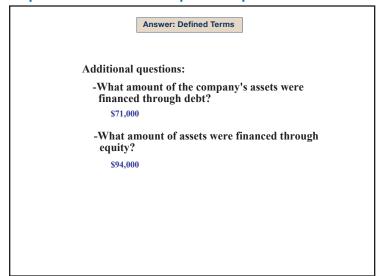
Assets are property or rights that have probable future benefit.

Liabilities are probable future obligations to pay cash or other assets or to provide services.

Owners' equity is the amount of assets provided by owners or the amount of owners' rights to, or claims upon, assets in the event of business termination.

# Introduction to the financial Statements and Stephen's Sweet Shop Example





#### The Income Statement

# **Income Statement**

**Revenues** \$100,000,000

- Expenses (99,980,000)

**Net Income** \$ 20,000

#### Revenues

Revenues are the amount of inflowing assets from the sale or providing of goods or services to customers. This amount is usually reflected as the sale price charged to the customer.

Note: Revenues are not the asset received but simply a description of why we received the asset. Sales revenues of \$100 means that \$100 worth of assets were received from a customer upon the sale of our product rather than from borrowing or an owner's contribution.

**Examples: Sales Revenues** 

**Consulting Fee Revenues Interest Revenues** 

#### **Expenses**

Expenses are the amount of outflowing assets representing a cost of providing goods or services for sale.

Note: Expense is a term which describes why an asset is given up (or will be given up in the future). Wage expense of \$500 means that \$500 worth of assets were paid out or will be paid out to employees and represents a cost incurred in operating the business.

**Examples: Wage Expense** 

Cost of Goods Sold (an expense representing the cost of inventory sold to customers)

**Problem: Definitions** 

Respond briefly to the following:

- A. How are a company's profits calculated?
- B. Define revenues, expenses and dividends.
- C. What are the two ways that owners may provide capital to a business?

**Problem: Definitions** 

D. Given the following information for the year 20X1 calculate the company's net income for the year.

 Cash
 \$10,000

 Accounts Receivable
 \$15,000

 Wages Payable
 \$14,000

 Sales Revenues
 \$75,000

 Wage Expense
 \$35,000

 Rent Expense
 \$25,000

 Dividends
 \$2,000

 Capital Stock
 \$15,000

Answer: Definitions

A. How are a company's profits calculated?

The term profit is synonymous with earnings or net income.

**Revenues - Expenses = Net Income** 

### The Income Statement

**Answer: Definitions** 

B. Define revenues, expenses and dividends.

Revenues describe the amount of asset inflows from the sale of goods or services to customers. It is typically the sales price or service fee charged to customers.

Expenses describe the amount of asset outlfows (or the amount of obligations incurred requiring the future outflow of assets) that result from costs incurred in operating the business.

Dividends describe the amount of assets distributed to owners (stockholders) from current or previous profits.

**Answer: Definitions** 

- C. What are the two ways that owners may provide capital to a business?
  - 1. Capital Contributions
  - 2. Retained Earnings

**Answer: Definitions** 

D. Given the following information for the year ended 20X1 calculate the company's net income for the year.

**Net Income = Revenues - Expenses** 

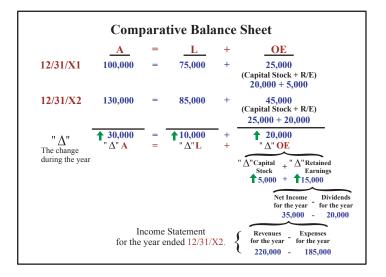
Cash	\$10,000	
Accounts Receivable	\$15,000	
Wages Payable	\$14,000	
Sales Revenues	\$75,000	15.000
Wage Expense	\$35,000	15,000
Rent Expense	\$25,000	Net Income
Dividends	2,000	
Capital Stock	\$15,000	

# **Expanded Accounting Equation**

## The Basic Accounting Equation Expanded to Reflect Changes Over Time

The basic accounting equation of A = L + OE is embodied in a company's balance sheet.

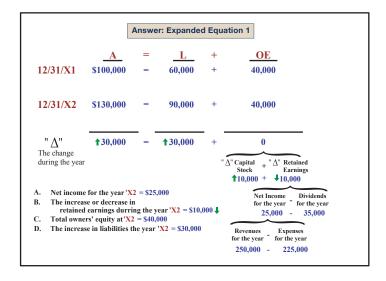
At any point in time, the amount of assets, liabilities and owners' equity represents the cumulative effect of all the company's transactions from the inception of the business up to that point in time.



Comparisons of balance sheet amounts from year to year highlight changes in a company's assets, liabilities and owners' equity as a result of business activities during a particular year.

These annual comparisons can be very useful to investors and creditors in identifying past performance trends and can facilitate projections for the future.

#### Problem: Expanded Equation 1 8. Given the following information for XYZ Corporation... 12/31/X1 12/31/X2 \$100,000 \$130,000 Assets ? Liabilities \$ Owners' Equity \$ 40,000 Other information: \$250,000 Revenues for the year 'X2 Dividends for the year 'X2 \$ 35,000 Expenses for the year 'X2 \$225,000 Capital contributions made by \$ 10,000 owners during the year 'X2 ... calculate the following: Net income for the year 'X2 The increase or decrease in retained earnings during the year'X2 Total owners' equity at 'X2 The increase in liabilities the year 'X2

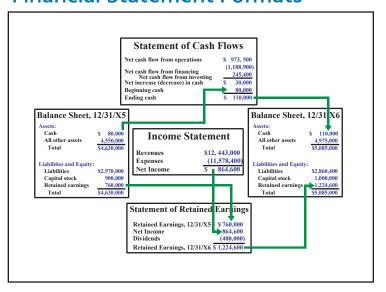


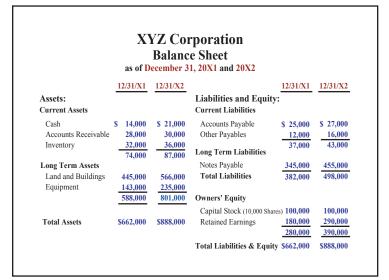
# Assuming assets increased by \$25,000 during the year and liabilities amounted to \$75,000 and \$65,000 at the beginning and end of the year, respectively, calculate revenues for the year assuming the following additional information: Dividends for the year Capital contributions during the year Expenses for the year \$12,000 \$100,000

Problem: Expanded Equation 2

# **Expanded Accounting Equation**

# **Financial Statement Formats**





# XYZ Corporation Statement of Retained Earnings

for the years ended December 31, 20X1 and 20X2

Retained Earnings, at	20X1	20X2
beginning of year	\$ 130,000	\$ 180,000
Add: Net Income for year <i>Less:</i> Dividends for year	75,000 (25,000)	150,000 (40,000)
Retained Earnings, at end of year	\$ 180,000	\$ 290,000

#### **XYZ Corporation Income Statement**

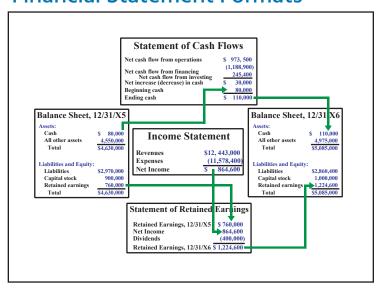
for the years ended December 31, 20X1 and 20X2

	20X1	20X2
Revenues:		
Sales Revenues	\$2,540,000	\$3,176,000
Other Revenues	10,000	12,000
	2,550,000	3,188,000
Expenses:		
Cost of Goods Sold	1,760,000	2,090,000
Salary & Wage Expense	430,000	550,000
Office Expenses	225,000	325,000
Other Expenses	60,000	73,000
	2,475,000	3,038,000
Net Income	\$75,000	\$ 150,000
Earnings Per Share (EPS	S) \$ 7.50	\$ 15.00

	Problem: Statem	ent Formats	
Given th	e following information fo	or S&W, Inc.:	
		12/31/X1	12/31/X2
	Cash	20,000	15,000
	Accounts Receivable	35,000	?
	Accounts Payable	40,000	45,000
	Land and Buildings	250,000	500,000
	Notes Payable	175,000	417,000
	Wages Payable	5,000	7,000
	Utilities Payable	3,000	5,000
	Equipment	75,000	135,000
	Sales Revenues	375,000	415,000
	Investment Revenues	5,000	10,000
	Dividends	20,000	30,000
	Cost of Goods Sold	265,000	272,000
	Wage Expense	45,000	50,000
	Office Supplies	3,000	5,000
	Office Expenses	10,000	12,000
	Capital Contributions	75,000	75,000
Prepare:	Retained Earnings	85,000	?
Assume that  B. A comparati  Assume the  C. A comparati	ve income statement for the years e there are 7,500 shares of stock ous ve statement of retained earings for retained earnings balance was \$45, ve balance sheet as of 12/31/X1 an nt" or "long term".)	tanding at 12/31/X1 the years ended 12/ 000 at 12/31/X0.	and 12/31/X2. 31/X1 and 12/31/X2.

Answer: State	ment Formats	
A. S&W, Inc. Income Statement as of December 31, 20X1 and 20X2		
D.	20X1	20X2
Revenues: Sales Revenues	6275 000	6415 000
Investment Revenues	\$375,000 5,000	\$415,000 10,000
investment revenues	380,000	425,000
Expenses:		
Cost of Goods Sold	265,000	272,000
Wage Expense	45,000	50,000
Office Expenses	10,000	12,000
	320,000	334,000
Net Income	\$60,000	\$91,000
Earnings Per Share	8.00	12.10

#### **Financial Statement Formats**



#### **XYZ** Corporation **Balance Sheet** as of December 31, 20X1 and 20X2 12/31/X1 12/31/X2 12/31/X2 Liabilities and Equity: Assets: Current Assets Current Liabilities Cash \$ 14,000 \$ 21,000 Accounts Payable \$ 25,000 \$ 27,000 Accounts Receivable 28,000 30.000 Other Pavables 12,000 16,000 32,000 Inventory 36,000 37,000 43,000 Long Term Liabilities 74,000 87,000 Notes Payable 345,000 455,000 Long Term Assets Land and Buildings **Total Liabilities** 445,000 566,000 382,000 498,000 143,000 235,000 Equipment 588,000 801,000 Owners' Equity Capital Stock (10,000 Shares) 100,000 100,000 180,000 290,000 Total Assets \$662,000 \$888,000 Retained Earnings 280,000 390,000 Total Liabilities & Equity \$662,000 \$888,000

# **XYZ** Corporation **Statement of Retained Earnings**

for the years ended December 31, 20X1 and 20X2

Retained Earnings, at beginning of year	20X1 \$ 130,000	20X2 \$ 180,000
Add: Net Income for year <i>Less:</i> Dividends for year	75,000 (25,000)	150,000 (40,000)
Retained Earnings, at end of year	\$ 180,000	\$ 290,000

#### **XYZ** Corporation **Income Statement**

for the years ended December 31, 20X1 and 20X2

	20X1	20X2
Revenues:		
Sales Revenues	\$2,540,000	\$3,176,000
Other Revenues	10,000	12,000
	2,550,000	3,188,000
Expenses:		
Cost of Goods Sold	1,760,000	2,090,000
Salary & Wage Expense	430,000	550,000
Office Expenses	225,000	325,000
Other Expenses	60,000	73,000
	2,475,000	3,038,000
Net Income	\$75,000	\$ 150,000
Earnings Per Share (EPS	S) \$ 7.50	\$ 15.00

#### **XYZ** Corporation **Statement of Cash Flows**

for the years ended December 31, 20X1 and 20X2

	20X1	20X2
Cash at beginning of year	\$16,000	\$14,000
Net cash flow from operations	87,000	179,000
Net cash flow from investing	(122,000)	(307,000)
Net cash flow from financing	33,000	135,000
Cash at the end of year	\$14,000	\$21,000

# Given the following information for S&W, Inc.:

**Problem: Statement Formats** 

12/31/X2 20,000 35,000 40,000 Cash Accounts Receivable 15,000 45,000 Accounts Payable 500,000 417,000 7,000 250,000 175,000 Land and Buildings Notes Payable Wages Payable 5,000 Utilities Payable 3,000 5,000 Equipment 135,000 75,000 Sales Revenues 375,000 415,000 Investment Revenues Dividends 10,000 20,000 30,000 Cost of Goods Sold 265,000 45,000 272,000 50,000 Wage Expense Office Supplies 3,000 5,000 Office Expenses Capital Contributions Retained Earnings 10,000 75,000 12,000 75,000 85,000

- Prepare: A. A comparative income statement for the years ended 12/31/X1 and 12/31/X2.

  Assume that there are 7,500 shares of stock oustanding at 12/31/X1 and 12/31/X2
- B. A comparative statement of retained earings for the years ended 12/31/X1 and 12/31/X2. Assume the retained earnings balance was \$45,000 at 12/31/X0.
- C. A comparative balance sheet as of 12/31/X1 and 12/31/X2. (Classify assets and liabilities as either "current" or "long term".)

# **Financial Statement Formats**

**Answer: Statement Formats** S&W, Inc. A. **Income Statement** as of December 31, 20X1 and 20X2 20X1 20X2 Revenues: Sales Revenues \$375,000 \$415,000 **Investment Revenues** 5,000 10,000 380,000 425,000 Expenses: Cost of Goods Sold 265,000 272,000 45,000 10,000 50,000 12,000 Wage Expense Office Expenses 320,000 334,000 Net Income \$60,000 \$91,000 **Earnings Per Share** 8.00 12.10

