# **Financial Accounting:**

Tools for Business Decision Making, 4th Edition Kimmel, Weygandt, Kieso

**CHAPTER 13** 

**FINANCIAL ANALYSIS:** The Big Picture



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# Chapter 13

### After studying Chapter 13, you should be able to:

- Understand the concept of "CONTINUING" operations and the importance of a multiplestep income statement presentation.
- Explain the concept of comprehensive income.
- Interpret financial statements, including the use of ratio analysis.

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### KEEPIN' IT REAL:

A strong analytic includes first developing an expectation.

Also, can we use financial statements to prove/ disprove some of the "economics" you are learning?

- How's the economy been doing?
  - What sort of effect do you suppose that may have on financial statements?
  - "Price elasticity" and "law of demand"... how about WalMart? Have a look: http://sec.gov/cgi-bin/browse-edgar?company=&match=&CIK=wal&filenum=&State=&Country=&SIC=&owner=exclude&Find=Find+Companies &action=getcompany
    - What economic principle is that?

"GIffen Goods"

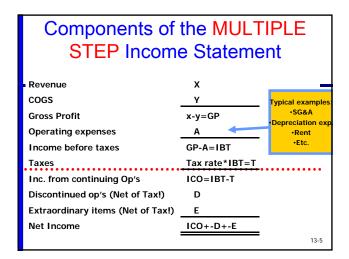
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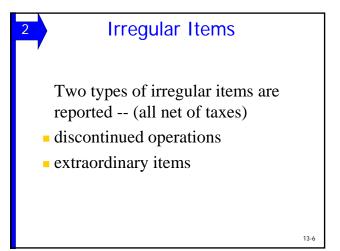
# Sustainable Income... "CONTINUING OPERATIONS"

REMEMBER: FINANCIAL STATEMENTS TELL WHAT HAPPENED (PAST TENSE) TO USERS WHO WANT TO DEVELOP EXPECTATIONS ABOUT WHAT IS GOING TO HAPPEN. Thus a need for a MULTIPLE STEP INCOME STATEMENT, which: Segregates the continuing operations from two principle items which are NOT continuing::

- - Discontinued Pperations and Extraordinary Items

WHY DO POTENTIAL NEW INVESTORS AND CREDITORS CARE ABOUT WHAT ALREADY HAPPENED? THE PAST IS A STRONG INDICATOR OF THE FUTURE.





# **Discontinued Operations...**

# Refers to the disposal of a significant segment of a business...

- the elimination of a major class of customers or
- an entire activity.

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# **Discontinued Operations**

Rozek net income of \$800,000 from continuing operations in 2007.

During 2007 the company discontinued and sold its unprofitable chemical division. The loss in 2007 from chemical operations (net of \$90,000 taxes) was \$210,000. The tax rate is 30%.

ROZEK INC. Income Statement (partial) For the Year Ended December 31, 20	07	
Income before income taxes Income tax expense	\$ 800,000 240,000	
Income before irregular items Discontinued operations Loss from disposal of chemical division, net of	560,000	
\$90,000 income tax savings	(210,000)	
Net income	\$ 350,000	

# Extraordinary Items...

# Are events and transactions that meet two conditions:

- Unusual in nature
- Infrequent in occurrence

HELP FROM BOB: (1) Has not happened before

(2) is not expected to happen again.



# **Extraordinary Items**

- In 2007 a revolutionary foreign government expropriated property held as an investment by Rozek Inc.
- The loss is \$70,000 before applicable income taxes of \$21,000, the income statement presentation will show a deduction of \$49,000.

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# Presentation of Extraordinary Items...

ROZEK INC.

Income Statement (partial)

For the Year Ended December 31, 2007

Income before income taxes
Income tax expense
Income before irregular items
Discontinued operations: Loss from disposal of chemical division, net of \$90,000 income tax savings
Extraordinary item: Expropriation of investment, net of \$21,000 income tax savings

Net income

ROZEK INC.

\$800,000

240,000

\$560,000

\$10,000

\$210,000

\$210,000

\$301,000

\$301,000

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# Extraordinary Items Ordinary Items Ordinary Items I. Effects of major natural casualities, if rare in the area. 1. Effects of major natural casualities, not uncommon in the area. 2. Expropriation (takeover) of property by a foreign government. 3. Effects of a newly enacted law or regulation, such as a condemnation acroin. 1. Losses attributable to labor strikes. 1. Losses attributable to labor strikes. 4. Gains or losses from sales of property, plans, or equipment.

# **Estimating Sustainable Income**

When evaluating a company, it generally makes sense to eliminate all irregular items in estimating future sustainable income.

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# Change in Accounting Principle

I DON'T COVER, EVEN THOUGH IT IS IN YOUR TEXT.

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# Comprehensive Income

- Most revenues, expenses, gains, and losses recognized during the period are included in net income.
- Specific exceptions to this practice have developed - these items bypass income and are reported directly in stockholders' equity as "other comprehensive income" (aka OCI).

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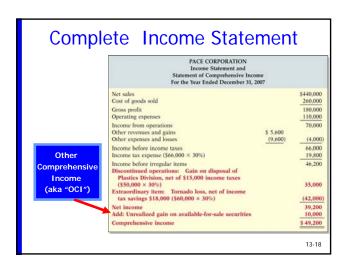
# Comprehensive Income

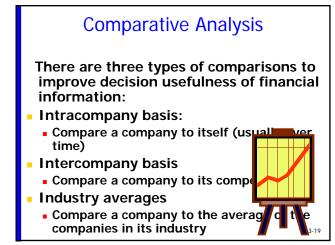
 The FASB now requires that, in addition to reporting net income, a company must also report comprehensive income.

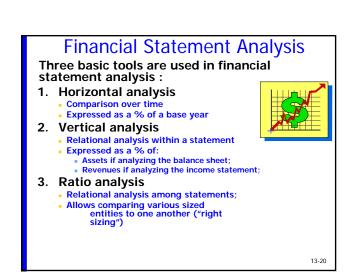
Includes all changes in stockholders' equity during a period except those resulting from investments by stockholders and distributions to stockholders.

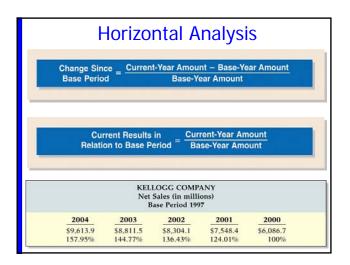
EASIER TO UNDERSTAND:

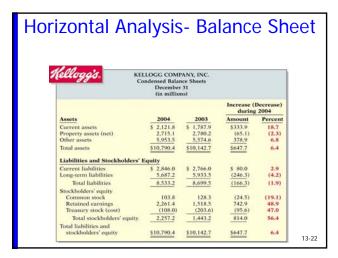
Comprehensive income = Net Income + Other Comprehensive Income.

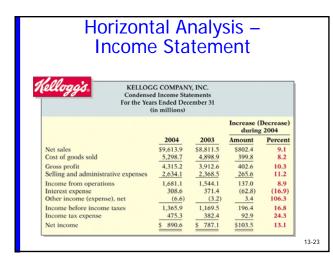












# Review In horizontal analysis, each item is expressed as a percentage of the: a. net income amount. b. stockholders' equity amount. c. total assets amount. d. base-year amount.

### Review

In horizontal analysis, each item is expressed as a percentage of the:

- a. net income amount.
- b. stockholders' equity amount.
- c. total assets amount.
- d. base-year amount.

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# | Vertical Analysis - Balance Sheet | | Vertical Analysis - Vertical Analysis - Balance Sheet | Vertical Analysis - Ve

# Intercompany Comparison by Vertical Analysis

	Kellogg Company, Inc.		General Mills, Inc.	
	Amount	Percent*	Amount	Percent*
Net sales	\$9,613.9	100.0	\$11,070.0	100.0
Cost of goods sold	5,298.7	55.1	6,584.0	59.5
Gross profit	4,315.2	44.9	4,486.0	40.5
Selling and administrative expenses	2,634.1	27.4	2,443.0	22.1
Nonrecurring charges	0.0	_	26.0	.2
Income from operations Other expenses and revenues	1,681.1	17.5	2,017.0	18.2
(including income taxes)	790.5	8.2	962.0	8.7
Net income	\$ 890.6	9.3	\$ 1,055.0	9.5

## Review

In vertical analysis, the base amount for depreciation expense is generally:

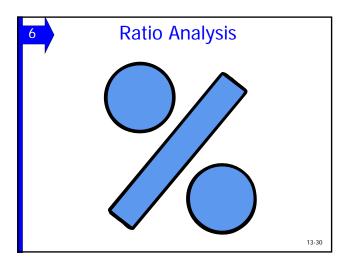
- a. net sales.
- b. depreciation expense in a previous year.
- c. gross profit.
- d. fixed assets.

### Review

In vertical analysis, the base amount for depreciation expense is generally:

- a. net sales.
- b. depreciation expense in a previous year.
- c. gross profit.
- d. fixed assets.

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## **Ratios**

- Three types:
  - Liquidity ratios
  - Solvency ratios
  - Profitability ratios
- Can provide clues to underlying conditions that may not be apparent from an inspection of the individual components.
- Single ratio by itself is not very meaningful.



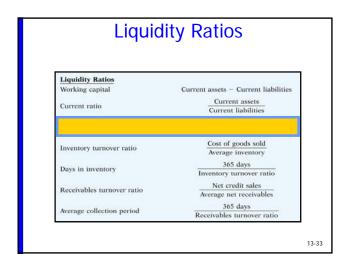
# **Liquidity Ratios**

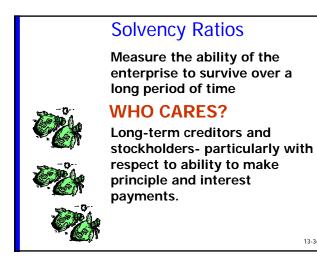


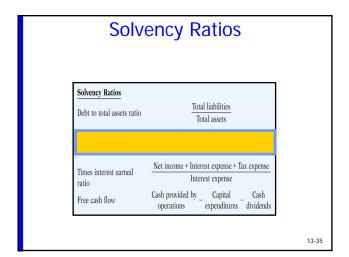
Measure the short-term ability of the enterprise to pay its maturing obligations and to meet unexpected needs for cash.

### WHO CARES?

Short-term creditors such as bankers and suppliers







# **Profitability Ratios**

Measure the income or operating success of an enterprise for a given period of time

WHO CARES? Everybody

WHY? A company's income affects:

- its ability to obtain debt and equity financing
- its liquidity position
- its ability to grow

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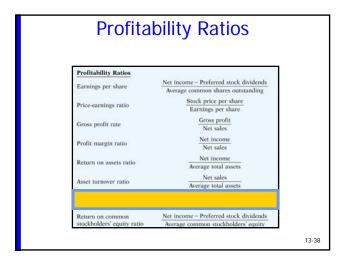
# PER SHARE

Why does it make sense to convert items on the statements to "per share" amounts?

Unless you own all the stock of a company, you would like to see activity converted to the basis at which you made your purchase

What about a lender, would they be interested in net income per share or net income?

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# **Price Earnings Ratio**

Price-Earnings (P-E) = Stock Price per Share Earnings per Share

The P/E ratio reflects the investors' assessment of a company's future earnings.

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# Earnings Per Share and Price Earnings Ratio

Company	Earnings Per Share	Price-Earnings Ratio		
Kellogg Company	\$ 2.22	20.5		
Google Inc.	3.41	86.6		
United States Steel	11.4	3.9		
eBay Inc.	0.68	62.4		
Nike	19.5	4.31		

# Limitations Of Financial Analysis

- Horizontal, vertical, and ratio analysis are frequently used in making significant business decisions.
- One should be aware of the limitations of these tools and the financial statements.



## **Estimates**

- Financial statements are based on estimates.
  - allowance for uncollectible accounts
  - depreciation
  - costs of warranties
  - contingent losses

To the extent that these estimates are inaccurate, the financial ratios and percentages are also inaccurate.

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# **Quality of Earnings**

A company that has a high quality of earnings provides full and transparent information that will not confuse or mislead users of the financial statements.

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### Pro Forma Income

A measure of the net income generated that usually excludes items that the company thinks are unusual or nonrecurring.

# Improper Recognition

- Offering big discounts (channel stuffing) to companies to get them to buy early-Often leads to disaster in subsequent periods.
- Improper capitalization of operating expenses

# LAST BUT CERTAINLY NOT LEAST

Financial statements display what happened (past tense)

Will the past always repeat itself?

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