

Lecture 3 **Working With Financial Statements**

Corporate Finance – Fall 2019

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Prelude

Following Chapter 2, Chapter 3 & 4 expand your understanding of the uses (and abuses) of financial statement information.

- Financial statements and numbers derived from these statement are primary means of communicating financial information both within the firm and outside the firm
- Financial statement information plays an important parts in decisions of many different types of users
- ➤ Accounting numbers are often just pale reflections of economic reality but they are frequently the best available information.
- ➤ Chapter 3 and 4 are first steps in transforming financial statement information to a form useful for decision making.

Learning objectives

LO1: How to standardize financial statements for comparison purposes

LO2: Know how to compute and, more importantly, interpret some common ratios

LO3: The determinants of a firm's profitability

LO4: Some of the problems and pitfalls in financial statement analysis

Chapter Outline

- 3.1 Cash Flow and Financial Statements: A Closer Look
- 3.2 Standardized Financial Statements
- **3.3** Ratio Analysis
- 3.4 The Du Pont Identity
- 3.5 Using Financial Statement Information

3.1.1 Sources and Uses of Cash

- > Sources of cash
 - Cash inflow activities that bring cash
 - > Decrease in asset account (except cash because we finally check it)
 - ➤ None (Table 3.1, next slide)
 - > Increase in liability or equity account
 - > Accounts payable, common stock and paid-in surplus, retained earnings
- Uses of cash
 - Cash outflow activities that involve spending cash
 - > Increase in asset account
 - > Accounts receivable, inventory, net plant and equipment
 - > Decrease in liability or equity account
 - ➤ Notes payable, long-term debt

Table 3.1
Prufrock Corp.
Balance Sheet

	2014	2015	Change
1216484 2013/99/1	Assets		
Current assets			
Cash	\$ 84	\$ 98	+\$ 14
Accounts receivable	165	188	+ 23
Inventory	393	422	+ 29
Total	\$ 642	\$ 708	+\$ 66
Fixed assets			
Net plant and equipment	\$2,731	\$2,880	+\$149
Total assets	\$3,373	\$3,588	+\$215
Liabilities	and Owners' Equi	ty	
Current liabilities			
Accounts payable	\$ 312	\$ 344	+\$ 32
Notes payable	231	196	<u> </u>
Total	\$ 543	\$ 540	-\$ 3
Long-term debt	\$ 531	\$ 457	-\$ 74
Owners' equity			
Common stock and paid-in surplus	\$ 500	\$ 550	+\$ 50
Retained earnings	1,799	2,041	+ 242
Total	\$2,299	\$2,591	+\$292
Total liabilities and owners' equity	\$3,373	\$3,588	+\$215

- The simple statement tells us much of what happened during the year, but it doesn't tell the whole story -> more information needed
- For example, we observe that "increase in retained earnings" calculated from the balance sheet is the difference between net income and dividends (next slide)

Sources of cash:	
Increase in accounts payable	\$ 32
Increase in common stock	50
Increase in retained earnings	242
Total sources	\$324
Uses of cash:	
Increase in accounts receivable	\$ 23
Increase in inventory	29
Decrease in notes payable	35
Decrease in long-term debt	74
Net fixed asset acquisitions	149
Total uses	\$310
Net addition to cash	\$ 14

Table 3.2
Prufrock Corp. Income Statement

PRUFROCK CORPORATION 2015 Income Statement (\$ in millions)					
Sales		\$2,311			
Cost of goods sold		1,344			
Depreciation		276			
Earnings before interest and taxes		\$ 691			
Interest paid		141			
Taxable income		\$ 550			
Taxes (34%)		187			
Net income		\$ 363			
Dividends	\$121				
Addition to retained earnings	242				

3.1.2 The Statement of Cash Flows

- > Statement that summarizes the sources and uses of cash
 - > The types of information will be similar, the exact order can differ
 - The key point is that we are trying to see what events led to the change of "cash" item (i.e., \$14, from \$84 to \$98 in this example)
- Changes of cash are grouped into three categories:
 - Operating Activity includes net income and changes in most current accounts
 - ➤ Investment Activity includes changes in fixed assets
 - Financing Activity includes changes in notes payable, long-term debt, and equity accounts, as well as dividends

PRUFROCK CORPORATION 2015 Statement of Cash Flows (\$ in millions)	
Cash, beginning of year	\$ 84
Operating activity	
Net income	\$363
Plus:	
Depreciation	276
Increase in accounts payable	32
Less:	
Increase in accounts receivable	- 23
Increase in inventory	_ 29
Net cash from operating activity	\$619
Investment activity	
Fixed asset acquisitions	-\$425
Net cash from investment activity	-\$425
Financing activity	
Decrease in notes payable	-\$ 35
Decrease in long-term debt	- 74
Dividends paid	- 121
Increase in common stock	50
Net cash from financing activity	-\$180
Net increase in cash	\$ 14
Cash, end of year	\$ 98

PRUFROCK CORPORATION 2015 Sources and Uses of Cash (\$ in millions)				
Cash, beginning of year	\$ 84			
Sources of cash				
Operations:				
Net income	\$363			
Depreciation	276			
	\$639			
Working capital:				
Increase in accounts payable	\$ 32			
Long-term financing:				
Increase in common stock	50			
Total sources of cash	\$721			
Uses of cash				
Working capital:				
Increase in accounts receivable	\$ 23			
Increase in inventory	29			
Decrease in notes payable	35			
Long-term financing:				
Decrease in long-term debt	74			
Fixed asset acquisitions	425			
Dividends paid	121			
Total uses of cash	\$707			
Net addition to cash	\$ 14			
Cash, end of year	\$ 98			

- > It is sometimes useful to present statement of cash flows differently as "sources and uses of cash" statement.
 - > We can get a good idea of what happened during the year
 - > we can easily figure out the major cash outlays and primary cash sources

3.2 Standardized Financial Statements

- Purposes
 - > For different points in time
 - Standardized statements make it easier to compare financial information, particularly as the company grows
 - > For different firms
 - > Standardized statements are useful for comparing companies of different sizes, particularly within the same industry
- > Types
 - Common-Size Balance Sheets
 - Compute all accounts as a percent of total assets
 - Common-Size Income Statements
 - > Compute all line items as a percent of sales

Common-Size Balance Sheet

	2014	2015	Change
	Assets		
Current assets			
Cash	2.5%	2.7%	+ .2%
Accounts receivable	4.9	5.2	+ .3
Inventory	11.7	11.8	+ .1
Total	19.1	19.7	+ .7
Fixed assets			
Net plant and equipment	80.9	80.3	7_
Total assets	100.0%	100.0%	.0
Liabilities ar	nd Owners' Equity		
Current liabilities			
Accounts payable	9.2%	9.6%	+ .3%
Notes payable	6.8	5.5	_1.4
Total	16.0	15.1	_1.0
Long-term debt	15.7	12.7	-3.0
Owners' equity			
Common stock and paid-in surplus	14.8	15.3	+ .5
Retained earnings	53.3	56.9	+3.6
Total	68.1	72.2	+4.1
Total liabilities and owners' equity	100.0%	100.0%	.0

Common-Size

Income Statement

PRUFROCK CORPORATION 2015 Common-Size Income Statement					
Sales		100.0%			
Cost of goods sold		58.2			
Depreciation		11.9			
Earnings before interest and taxes		29.9			
Interest paid		6.1			
Taxable income		23.8			
Taxes (34%)		8.1			
Net income		15.7%			
Dividends	5.2%				
Addition to retained earnings	10.5				

TABLE 3.7

PRUFROCK CORPORATION Summary of Standardized Balance Sheets (Asset Side Only)

	(Assets (\$ in millions)			Common-Size Assets		Common-Base Year Assets	Combined Common-Size and Base Year Assets
	2014		2015		2014	2015	2015	2015
Current assets								
Cash	\$	84	\$	98	2.5%	2.7%	1.17	1.08
Accounts receivable	1	65		188	4.9	5.2	1.14	1.06
Inventory	3	193		422	11.7	11.8	1.07	1.01
Total current assets	\$ 6	642	\$	708	19.1	19.7	1.10	1.03
Fixed assets								
Net plant and equipment	\$2,7	31	\$2	,880	80.9	80.3	1.05	.99
Total assets	\$3,3	373	\$3	,588	100.0%	100.0%	<u>1.06</u>	1.00

Note: The common-size numbers are calculated by dividing each item by total assets for that year. For example, the 2014 common-size cash amount is \$84/3,373 = 2.5%. The common-base year numbers are calculated by dividing each 2015 item by the base year (2014) dollar amount. The common-base cash is thus \$98/84 = 1.17, representing a 17 percent increase. The combined common-size and base year figures are calculated by dividing each common-size amount by the base year (2014) common-size amount. The cash figure is therefore 2.7%/2.5% = 1.08, representing an 8 percent increase in cash holdings as a percentage of total assets. Columns may not total precisely due to rounding.

3.3 Ratio Analysis

- ➤ Ratios allow for better comparison through time or between companies
- > Ratios are used both internally and externally
 - ➤ Different sources and different people seldom compute financial ratios in exactly the same way
 - ➤ Be sure you know how the ratios are computed when you compare them

- ➤ Because there are so many accounting items, we could have a huge number of possible ratios
- > Here we introduce some commonly used financial ratios
- > As we look at each ratio, ask yourself:
 - How is it computed and what is the unit of measurement?
 - What is it trying to measure?
 - Why is that information important?
 - ➤ What might a high or low value tell us?
 - > How might such values be misleading and how to improve?

- Categories of Financial Ratios
 - Short-term solvency (or liquidity ratios)
 - Long-term solvency (or financial leverage ratios)
 - Asset management (or turnover ratios)
 - Profitability ratios
 - ➤ Market value ratios

3.3.1 Short-Term Solvency, or Liquidity, Measures

- ➤ The firm's ability to pay its bills over the short run without undue stress -> focus on current assets and current liabilities
- > Particularly interesting to short-term creditors
 - > e.g. banks and other short-term lenders
- > Today's amounts may not be a reliable guide to the future
 - Current assets and current liabilities don't live long enough
 - > the book values and market values are likely to be similar
 - > These assets and liabilities can and do change fairly rapidly

3.3.1 Short-Term Solvency, or Liquidity, Measures

Current ratio = Current Assets / Current Liabilities

- \geq 708 / 540 = 1.31 times
- > To (particularly short-term) creditors, the higher, the better
- > To the firm, a high current ratio indicates
 - high liquidity
 - > insufficient use of cash and other short-term assets
- > In normal cases, we would expect that this ratio is at least 1
 - > less than 1 means current assets < current liabilities
 - not a bad sign for a company with a large reserve of untapped borrowing power
- ➤ See Example 3.1 on the textbook

Quick ratio = (Current Assets – Inventory) / Current Liabilities

- > (708 422) / 540 = .53 times
 - Notice that inventory accounts for more than half of Prufrock's current assets
- > Inventory is often the least liquid current asset
 - ➤ Inventory is also the one for which the book values are least reliable as measures of market value
- > Relatively large inventories are often a sign of short-term trouble
 - ➤ The firm may have overestimated sales and overbought or over produced
 - > As a result, the firm's liquidity is tied up in slow-moving inventory

Cash ratio = Cash / Current Liabilities

- > 98 / 540 = .18 times
- > A very short-term creditor might be interested in cash ratio

NWC to total assets = Net Working Capital / Total Assets

- > (708 540) / 3,588 = .05
- > We use NWC as the numerator because it is frequently viewed as short-term liquidity

Interval measure = Current Assets / average daily operating costs

- > 708 / (1,344 / 365) = 219.8 days
- ➤ If cash inflows began to dry up, how long could the business keep running?
- > Also useful for newly founded or start-up companies
 - > How long it can operate until it needs another round of financing?

3.3.2 Long-Term Solvency Measures

- > The firm's long-term ability to meet obligations
 - > measures its financial leverage

Total debt ratio = (Total Assets – Total Equity) / Total Assets

- > (3,588 2,591) / 3,588 = .28 times
 - > whether this is good depends on the matter of capital structure

Debt-equity ratio = Total Debt / Total Equity

> .28 / .72 = .38 times

Equity multiplier = Total Assets/Total Equity= 1 + Total Debt/Total Equity

> 1 / .72 = 1.38 times

Given any one of the three ratios, you can calculate the other two

Long-term debt ratio = Long-term Debt/(Long-term Debt + Total Equity)

- \geq 457 / (457 + 2,591) = .15 times
- Financial analyst are frequently more concerned with a firm's longterm debt than its short-term debt
- Short-term debt will constantly be changing
 - > Items such as accounts payable may reflect trade practice more than debt management policy

Times interest earned ratio = EBIT / Interest

- \triangleright 691 / 141 = 4.9 times
- > Measures how well a company has its interest obligations covered

Cash coverage = (EBIT + Depreciation) / Interest

- \geq (691 + 276) / 141 = 6.9 times
- > A measure of cash flow available to meet financial obligations
- > "EBIT + Depreciation" (EBITD) is a basic measure of the firm's ability to generate cash from operations

3.3.3 Asset Management, or Turnover, Measures

➤ Describe how efficiently or intensively does a firm use its assets to generate cash? -> Sometimes called asset utilization ratios.

Inventory turnover = Cost of goods sold / Inventory

- > 1,344 / 422 = 3.2 times
 - > Prufrock sold off (turned over) the entire inventory 3.2 times
- As long as we are not running out of stock, the higher the ratio is, the more efficiently we are managing inventory

Days' sales in inventory = 365 / Inventory turnover

- > 365 / 3.2 = 115 days
 - > inventory sits 115 days on average before it is sold
- > Describes how long it took us to turn it over on average

Receivables turnover = Sales / Accounts receivable

- \geq 2,311 / 188 = 12.3 times
 - Profrock collected its outstanding credit accounts and reloaned the money 12.3 times during the year
 - > We assume all sales are credit sales. If not, use total credit sales instead
- > Describes how fast we collect on sales
- > Also see Example 3.2 to find a variation named payables turnover
 - > It is a measure of interest to creditors or potential creditors

Days' sales in receivables = 365 / Receivables turnover

- > 365 / 12.3 = 30 days
 - > Prufrock collects on its credit sales in 30 days
- > Describes how fast we collect on sales
 - Frequently called the average collection period (ACP)

- ➤ Now we consider three "big picture" rations
- **NWC Turnover** = Sales / NWC
- \geq 2,311 / (708 540) = 13.8 times
- > Measures how much work we get out of our net working capital
- > As long as we aren't missing out on sales, a high value is preferred
- **Fixed asset turnover** = Sales / Net fixed assets
- \geq 2,311 / 2,880 = .80 times
- > For every dollar in fixed assets, Prufrock generated \$.80 in sales
- **Total asset turnover** = Sales / Total assets
- \geq 2,311 / 3,588 = .64 times
- For every dollar in assets, Prufrock generate \$.64 in sales

3.3.4 Profitability Measures

- > These three measures are most widely used of all financial ratios
- > The focus in this group is on the bottom line, net income

Profit margin = Net income / Sales

- **>** 363 / 2,311 = 15.71%
 - > Prufrock generates \$.1571 in profit for every dollar in sales
- > All other things being equal (usually not), the higher, the better

Return on assets (ROA) = Net income / Total assets

- **>** 363 / 3,588 = 10.12%
- ➤ Measures profit per dollar of assets

Return on Equity (ROE) = Net income / Total equity

- **>** 363 / 2,591 = 14.01%
- Measures profit per dollar of equity
- ➤ Because benefiting shareholders is our goal, ROE is the true bottomline measure of performance

- ➤ Discussion on ROA and ROE
 - > They are accounting rates of return
 - return on book asset and return on book equity
 - ➤ It would be inappropriate to compare them to rates in the financial markets (e.g. interest rate)
 - > ROE exceeds ROA reflects the use of financial leverage

3.3.5 Market Value Measures

- ➤ Market price = \$88 per share, Shares outstanding = 33 million, Net income = \$363 million
 - > Earnings per share = \$363 / 33 = \$11

Price-Earnings (PE) Ratio = Price per share / Earnings per share

- > 88 / 11 = 8 times
 - > Prufrock shares sell for eight times earnings
- > Care is needed in interpreting this ratio
 - Measures how much investors are willing to pay per dollar of current earnings
 - ➤ Higher PEs are often taken to mean the firm has significant prospects for future growth
 - > However, the PE of a firm with almost no earnings would also be large

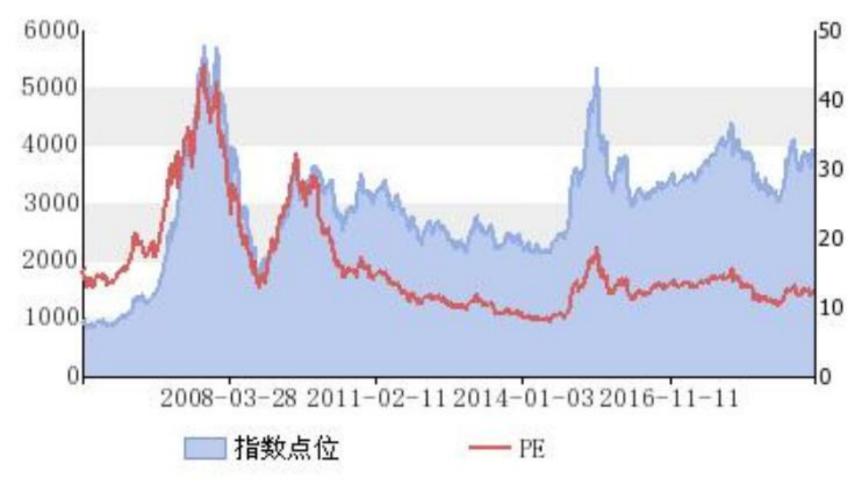


Figure: Historical PE ratio of CSI 300 index

2005/4/15-2019/9/6 (Data source: iFind)

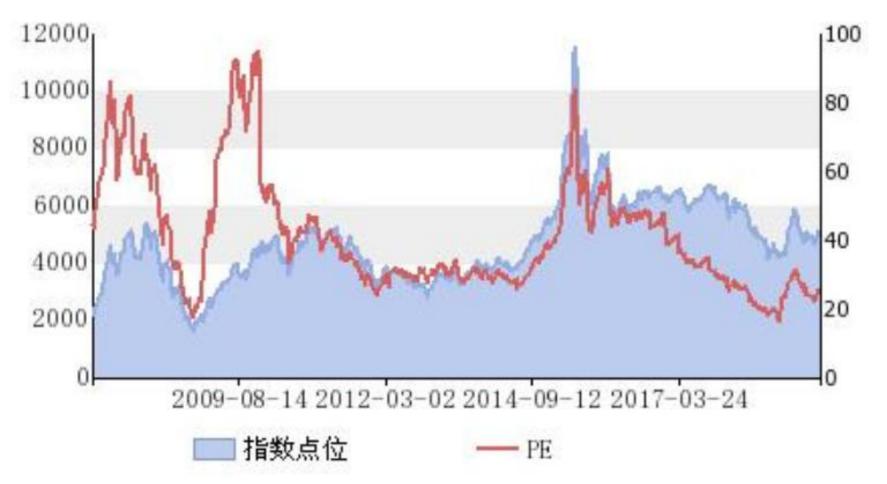


Figure: Historical PE ratio of CSI 500 index

2007/1/15-2019/9/6 (Data source: iFind)

PEG ratio = PE ratio / (expected future earnings growth rates * 100)

- \triangleright Suppose the expected growth rate of EPS was 6% -> 8/6 = 1.33
- The idea of PEG is, whether a PE ratio is high or low depends on expected future growth
- ➤ High PEG ratios suggest that the PE ratio is too high relative to growth, and vice versa

Price-sales (PS) ratio = Price per share / Sales per share

- **>** 88 / (2,311/33) = 1.26
 - As with PE ratios, whether a particular price-sales ratio is high or low depends on the industry involved
- > PS ratio is useful especially in the case of negative earnings

Market-to-book ratio = Market value per share / Book value per share

- \geq 88 / (2,591/33) = 1.12 times
- ➤ A value less than 1 could mean that the firm has not been successful overall in creating value for its stockholders
- ➤ Tobin's Q (a relevant ratio) = Market value of firm's assets / Replacement cost of firm's assets = Market value of firm's debt and equity / Replacement cost of firm's assets
 - Conceptually, the Q ratio is superior to the market-to-book ratio
 - ➤ The Q ratio focuses on what the firm is worth today relative to what it would cost to replace it today
 - > The market-to-book ratio focuses on historical costs
 - > In practice, Q ratios are difficult to calculate with accuracy
 - > Estimating the replacement cost of a firm's assets is not easy
 - > Market values for a firm's debt are often unobservable

Enterprise value = Total market value of the stock + Book value of all liabilities - Cash

- > 88*33 + (540 + 457) 98 = \$3,803
- ➤ Enterprise value is an estimate of the market value of a company's operating assets (i.e., all the assets of the firm except cash)
 - ➤ It is not practical to work with individual assets -> we use the right-hand side of the balance sheet to calculate
 - Book value of debt is usually a reasonable approximation for market value, particularly short-term debt

EBITDA ratio = Enterprise value / EBITDA

- > EBITDA ratio is similar in spirit to the PE ratio
- The difference is that it relates the value of all the operating assets (the enterprise value) to a measure of the operating cash flow generated by those assets (EBITDA)

Table 3.8

I.	Short-term solvency, or liquidity, ratios	II.	Long-term solvency, or financial leverage, ratios
	Current ratio = Current assets Current liabilities		Total debt ratio = Total assets - Total equity Total assets
	Quick ratio = Current assets - Inventory Current liabilities		Debt-equity ratio = Total debt/Total equity
	Cash ratio = Cash Current liabilities		Equity multiplier = Total assets/Total equity
	Net working capital to total assets = $\frac{\text{Net working capital}}{\text{Total assets}}$		$Long-term debt ratio = \frac{Long-term debt}{Long-term debt + Total equity}$
	Interval measure = Current assets Average daily operating costs		Times interest earned ratio = EBIT Interest
			Cash coverage ratio = EBIT + Depreciation Interest
III.	Asset management, or turnover, ratios	IV.	Profitability ratios
	Inventory turnover = Cost of goods sold Inventory		Profit margin = Net income Sales
	Days' sales in inventory = $\frac{365 \text{ days}}{\text{Inventory turnover}}$		Return on assets (ROA) = Net income Total assets
	Receivables turnover = Sales Accounts receivable		Return on equity (ROE) = Net income Total equity
	Days' sales in receivables = $\frac{365 \text{ days}}{\text{Receivables turnover}}$		$ROE = \frac{Net \ income}{Sales} \times \frac{Sales}{Assets} \times \frac{Assets}{Equity}$
	$NWC turnover = \frac{Sales}{NWC}$	V.	Market value ratios
	Fixed asset turnover = Sales Net fixed assets		Price-earnings ratio = Price per share Earnings per share
	Total asset turnover = Sales Total assets		PEG ratio = Price-earnings ratio Earnings growth rate (%)
			Price-sales ratio = Price per share Sales per share
			Market-to-book-ratio = Market value per share Book value per share
			Tobin's Q ratio = Market value of assets Replacement cost of assets
045			Enterprise value-EBITDA ratio = Enterprise value EBITDA

3.4 The DuPont Identity

3.4.1 A Closer Look at ROE

- ➤ The DuPont Identity is a famous way of decomposing ROE into its component parts
 - > ROE = Net Income / Total Equity
 - ➤ Multiply by (Assets/Assets) and then rearrange
 - > ROE = (Net Income / Total Equity) * (Assets / Assets)
 - ➤ ROE = (Net Income / Assets) * (Assets / Total Equity) = ROA * Equity Multiplier
 - > The difference between ROA and ROE reflects financial leverage
 - ➤ Multiply by (Sales/Sales) again and then rearrange
 - > ROE = (Net Income / Assets) * (Assets / Total Equity) * (Sales / Sales)
 - > ROE = (Net Income / Sales) * (Sales / Assets) * (Assets / Total Equity)
 - ➤ ROE = Profit Margin * Total Asset Turnover * Equity Multiplier

- > ROE = Profit Margin * Total Asset Turnover * Equity Multiplier
 - ➤ Profit margin is a measure of the firm's operating efficiency how well it controls costs
 - > Total asset turnover is a measure of the firm's asset use efficiency
 - how well does it manage its assets
 - > Equity multiplier is a measure of the firm's financial leverage
- ➤ The DuPont identity tells you where to start looking for the reasons of a satisfactory / unsatisfactory ROE
 - ➤ Weakness in either operating or asset use efficiency will show up in a diminished ROA, which will translate into a lower ROE
 - Increasing debt will not necessarily increase ROE
 - ➤ It might be: greater debt -> higher interest expense -> lower profit margins

Examples of the DuPont identity

- > GM's ROE had improved from 12.1 (1989) to 44.1 (1993)
- ➤ DuPont breakdowns for Yahoo! and Google

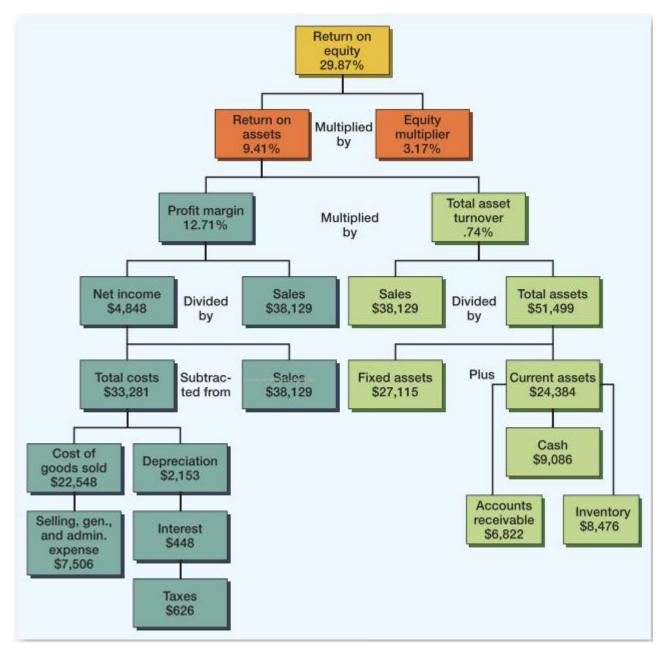
	ROE		Profit margin		Total asset turnover		Equity multiplier
Yahoo!							
2013	10.4%	=	29.2%	×	.279	×	1.29
2012	8.0	=	23.4	×	.292	×	1.17
2011	8.4	=	21.0	×	.368	×	1.18
Google							
2013	14.8%	=	21.6%	×	.539	×	1.27
2012	15.0	=	21.5	×	.535	×	1.31
2011	16.7	=	25.7	×	.522	×	1.25

3.4.2 An Expanded DuPont Analysis

> Financial Statement for DuPont

FINANCIAL STATEMENTS FOR DUPONT 12 months ending December 31, 2013 (All numbers are in millions)										
Income State	ement	Balance Sheet								
Sales	\$38,129	Current assets		Current liabilities						
CoGS	22,548	Cash	\$ 9,086	Accounts payable	\$11,646					
Gross profit	\$15,581	Accounts receivable	6,822	Notes payable	1,721					
SG&A expense	7,506	Inventory	8,476							
Depreciation	2,153	Total	\$24,384	Total	\$13,367					
EBIT	\$ 5,922									
Interest	448	Fixed assets	\$27,115	Total long-term debt	\$21,903					
EBT	\$ 5,474									
Taxes	625			Total equity	\$16,229					
Net income	\$ 4,848	Total assets	\$51,499	Total liabilities and equity	\$51,499					

- > Extended DuPont Chart
 - ➤ It examines several ratios at once to get a better overall picture of a company's performance
 - ➤ It allows us to determine possible items to improve



3.5 Using Financial Statement Information

3.5.1 Why Evaluate Financial Statements?

- The primary reason for looking at accounting information is we don't have (and can't reasonably expect to get) market value information
- > Internal uses
 - > Performance evaluation: compensation, comparison between divisions
 - > Planning for the future: it is a guide in estimating future cash flows
- > External uses
 - > Parties that care about a firm's financial health
 - Creditors (both short-term and long-term), Suppliers, Customers, Stockholders and potential investors
 - > Evaluating main competitors (discern their financial strength)
 - > Acquire another firm (identify potential targets and decide what to offer)

3.5.2 Choosing a Benchmark

- Ratios are not very helpful by themselves; they need to be compared to something
- ➤ Time-Trend Analysis
 - > Used to see how the firm's performance is changing through time
- Peer Group Analysis
 - > Compare to similar companies or within industries
 - > SIC and NAICS codes

3.5.3 Problems with Financial Statement Analysis

- There is no underlying theory, so there is no way to know which ratios are most relevant
- Benchmarking is difficult for diversified firms
- ➤ Globalization and international competition makes comparison more difficult because of differences in accounting regulations
- ➤ Different accounting procedures (e.g. FIFO vs. LIFO)
- Different fiscal years
- Unusual or transient events
- **>** ...

Epilogue

- > This chapter has discussed aspects of financial statement analysis:
 - Sources and uses of cash
 - > Standardized financial statements
 - > Ratio analysis
 - > Five categories of common financial ratios
 - DuPont identity
 - Using financial statements
- After this chapter, you have obtained some perspective on the uses and abuses of financial statements.
 - Your vocabulary of business and financial terms has grown substantially

CH3 Compulsory Assignments (Due at 11 a.m. 2019/9/18)

BASIC QUESTIONS 3, 6, 13, 14, and INTERMEDIATE QUESTION 18

- > Hand in an excel file named "class-name-student number"
- ➤ Make sure that the answer of each question includes full intermediate process.