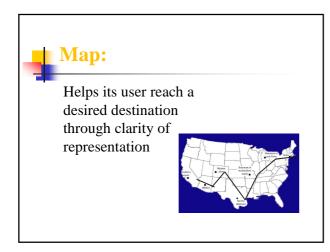
# TAKING THE FEAR OUT OF FINANCIAL STATEMENT ANALYSIS

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### Maze:

#### On the other hand...

Attempts to confuse its user by purposefully introducing conflicting elements and complexities that prevent reaching the desired goal

### Financial Statements - MAP

- Form basis for understanding the financial position of a firm
- Allow users to assess historical and prospective financial performance
- Present picture of firm's financial health, leading to informed business decisions

# Financial Statements - MAZE

- Contain large amounts of information
- Accounting policies and reporting requirements are complex and constantly changing
- Allow management considerable discretion
- Hide or omit key information

# Why use financial statements?

Savvy use of financial statements allows user to assess:

- Financial position of the company
- Success of its operations
- Policies and strategies of management
- Insight into future performance

# Where to Find a Company's Financial Statements:

- Form 10-K
- Annual report
- Website

# The 4 Basic Financial Statements

- Balance Sheet
- Income Statement or Earnings Statement
- Statement of Stockholders' Equity
- Statement of Cash Flows

# **The Balance Sheet**

Also called the statement of condition or statement of financial position

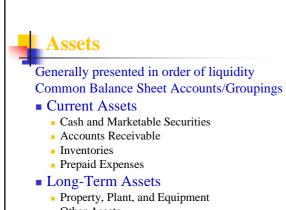
#### **Financial Condition**

Shows the financial condition or financial position of a company *on a particular date* 

# Financial Condition

#### Assets = Liabilities + Stockholders' equity

Assets = What the firm *owns* Liabilities = What the firm *owes* to outsiders Stockholders' equity = What the firm *owes* to Internal owners



#### Other Assets

### **A Few Definitions**

**Current Assets -** Cash or other assets expected to be converted into cash within one year or one operating cycle, whichever is longer

**Operating Cycle -** Time required to purchase or manufacture inventory, sell the product, and collect the cash

# **A Few Definitions**

Working Capital (Net working capital) designates the amount by which current assets exceed current liabilities

# Cash & Marketable Securities

Two accounts are often combined as "Cash and Cash Equivalents"

#### Cash

- Cash in any form—cash awaiting deposit or in a bank account
- Generally includes currency, coin, balances in checking and other demand or "near demand" accounts

### Inventories

Items held for sale or used in the manufacture of products that will be sold

### **Property, Plant, & Equipment** (PP&E)

Encompasses a company's fixed assets

- Also called tangible, long-lived, and capital assets
- Fixed assets other than land are "depreciated" over the period of time they benefit the firm
- process of depreciation is method of allocating the cost of long-lived assets

### **Property, Plant, & Equipment** (PP&E)

On any balance sheet date, PP&E is shown at BOOK VALUE

**Book value** = original cost - accumulated depreciation to date

### Liabilities

Represent claims against assets by creditors Current Liabilities must be satisfied in one year or one operating cycle and include:

- Accounts Payable
- Notes Payable
- Current Portion of Long-Term Debt
- Accrued Liabilities
- Unearned Revenue
- Deferred Taxes

### Liabilities

#### Accounts Payable

- Short-term obligations that arise from credit extended by suppliers for the purchase of goods and services
- Account is eliminated when the bill is satisfied
- Significant changes from period to period often result from changes in sales volume, economic conditions or credit policies available to firm from its suppliers

# Liabilities

#### Notes Payable

 Short-term obligations in the form of promissory notes and/or lines of credit to suppliers or financial institutions

### **Noncurrent Liabilities**

Obligations with maturities beyond one year

- Long-Term Debt
- Capital Lease Obligations
- Postretirement Benefits Other Than Pensions
- Commitments and Contingencies
- Hybrid Securities

### Noncurrent Liabilities

#### Long-Term Debt

- Bonds
- Long-Term Notes Payable
- Mortgages
- Obligations under leases
- Pension Liabilities
- Long-Term Warranties

# **Noncurrent Liabilities**

#### **Capital Lease Obligations**

- Are, in substance, a "purchase" rather than a "lease"
- Affect both balance sheet and income statement

# **Stockholders' Equity**

Ownership equity is the residual interest in assets that remains after deducting liabilities

# **Stockholders' Equity**

### Common Stock

Shareholders: Do not ordinarily receive a fixed return

Have voting privileges in proportion to ownership interest

Dividends are declared at the discretion of a company's board of directors

# Stockholders' Equity

#### Additional Paid-In Capital

Reflects the amount by which the original sales price of the stock shares exceeded par value

# **Stockholders' Equity**

#### **Retained Earnings**

Is the sum of every dollar a company has earned since its inception, less any payments made to shareholders in the form of cash or stock dividends

Beginning retained earnings

- $\pm$  Net income (loss) Dividends
- = Ending retained earnings

### **The Income Statement**

Also called the Statement of Earnings Presents:

Revenues Expenses Net Income Earnings Per Share

# The Income Statement

#### Multiple-step

Provides several intermediate profit measures prior to the amount of net earnings for the period:

- Gross profit
- Operating profit
- Earnings before income taxes

Should be used for purposes of analysis

### **The Income Statement**

#### Single-step

Groups all items of revenue together, then deducts all categories of expense to arrive at a figure for

net income

### **Statement of Cash Flows**

Provides information about cash inflows and outflows during an accounting period

# **Statement of Cash Flows**

#### Why is it important???

"A positive net income on the income statement is ultimately insignificant unless a company can translate its earnings into cash, and the only source in financial statement data for learning about the generation of cash from operations is the statement of cash flows"

#### Preparing a Statement of Cash Flows

- Begins with a return to the balance sheet
- Is prepared by calculating changes in all of the balance sheet accounts

### **Preparing a Statement of Cash Flows**

Four parts of a statement of cash flows:

- 1. Cash
- 2. Operating activities
- 3. Investing activities
- 4. Financing activities

### Preparing a Statement of Cash Flows

Cash includes

If company separates marketable securities into two accounts: cash and cash equivalents and short-term investments, the short-term investments are:

Classified as investing activities

### Preparing a Statement of Cash Flows

Operating Activities include

- Delivering or producing goods for sale and providing services
- The cash effects of transactions and other events that enter into the determination of income

### Preparing a Statement of Cash Flows

#### **Operating Activities Examples**

- Cash flows resulting from sales of goods
- Purchase of inventories
- Payments for operating expenses

### Preparing a Statement of Cash Flows

#### Investing Activities include

- Acquiring/disposing of securities that are not cash equivalents
- Acquiring/disposing of productive assets
- Lending money/collecting on loans

### Preparing a Statement of Cash Flows

#### Financing Activities include

- Borrowing from creditors/repaying the principal
- Obtaining resources from owners
- Providing owners with a return on investment

Inflow	Outflow
- Asset account	+ Asset account
+ Liability account	- Liability account
+ Equity account	- Equity account

### Analyzing the Statement of Cash Flows

Is an important analytical tool for creditors, investors and other users of financial statement data

### **Analyzing the Statement of Cash Flows**

#### Indicates

- Firm's ability to generate cash flows in the future
- Firm's capacity to meet cash obligations
- Firm's future external financing needs

# Analyzing the Statement of Cash Flows

#### Indicates

- Firm's success in productively managing investing activities
- Firm's effectiveness in implementing financing and investing strategies

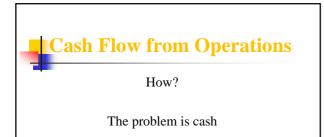
# Cash Flow from Operations

It is possible for a firm to be highly profitable and not be able to:

Pay dividends or invest in new equipment Service debt

# **Cash Flow from Operations**

It is also possible for a firm to be highly profitable and go bankrupt



# **Cash Flow from Operations**

The ongoing operation of any business depends upon its success in generating cash from operations

# **Financial Statement Notes**

- An INTEGRAL part of the statements
- Provide summary of accounting policies
- Present detail about particular accounts (e.g. inventory, investments, etc.)
- Include other information (e.g. leasing arrangements, pending legal proceedings, income taxes, etc.)

# **Auditor's Report**

Unqualified Qualified Adverse Opinion Disclaimer of Opinion

# Auditor's Report

- Unqualified (what you want!)
  - Statements present information in conformity with GAAP

#### Qualified

- Reports other than an unqualified opinion due to various circumstances
- Typically use word "except for"

# **Auditor's Report**

#### Adverse opinion (not what you want!)

- Financial statements have not been presented fairly in accordance with
  - GAAP

#### Disclaimer of opinion is issued when

- auditor can't evaluate the fairness of the statements and expresses no opinion
- there is material scope limitation of the audit
- there is lack of independence by the auditor
  - remember, the auditor is hired by the firm being audited, so there is always the possibility of conflict of interest

#### Management Discussion & Analysis (MD&A)

- Sometimes labeled "Financial Review"
- Contains information that cannot be found in the financial data

#### **Includes discussion of:**

- 1. Internal/external sources of liquidity
- **2.** Any material deficiencies in liquidity and how they will be remedied
- **3.** Commitments for capital expenditures/sources of funding

### Quality of Financial Reporting

Management has considerable discretion within GAAP

Potential exists to "manipulate" the profit/loss reported

# **Common Size Analysis**

• Common sizing is a method in which one can analyze the financial strength and performance of a company. It is important to have three years of financial statements in order to make common sizing analysis meaningful. There are two types of common sizing.

### **Common Size Analysis**

- Vertical Analysis Compares each amount with a base amount selected from the same year.
- On the balance sheet, total assets are assigned a value of 100 percent. Because total assets equal liabilities and owner's equity, the amount for total liabilities and owner's equity is also give 100 percent. All assets accounts are compared to total assets. Same is true for liabilities and owner's equity.
- This helps to analyze the "make up" of our balance sheet accounts.
- In the income statement, sales are the 100 percent figure. All other items are compared to sales. Helps to tell how efficiently we are selling. Are we getting the "Best Bang" for our buck.

### **Common Size Analysis**

- Horizontal Analysis compares several annual balance sheets or income statements. The change in an account on a statement is compared to a base amount for a selected base year.
- Compares one period to another so that you can see the trend that a company is going toward.
- It is very important to see a trend with a company rather than simply look at one period of time.

# **Ratio Analysis**

Ratio analysis is a method to use formulas to measure a company's financial strength and efficiency in particular areas. There are basically three types of ratios.

# **Ratio Analysis**

- Liquidity Ratios Short-term debt. Can the company pay its debts when they come due? Most unsecured trade creditors are most interested in liquidity ratios.
- Leverage Ratios Long term debt. Does the company have enough total assets to cover its total debt? Would there be anything left as equity?

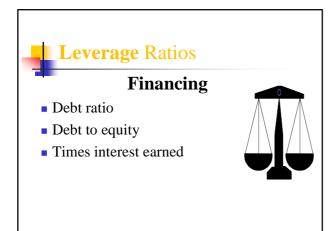
# Ratio Analysis

- Activity Ratios Measures the liquidity of specific assets and efficiency in which a company manages those assets.
- Profitability Ratios Measures the overall performance of the company. Looks at its efficiency and operating success.

# **Liquidity Ratios**

- Current ratio
- Quick or acid test ratio
- Cash flow from operations
- Cash flow liquidity ratio
- Working capital





# **Activity Ratios**

- Average Collection Period
- Inventory Carrying Period
- Accounts Payable Outstanding
- Total Asset Turnover
- Fixed Asset Turnover

# **Profitability Ratios**

- Gross profit margin
  Sales and Cost of goods sold
- Operating profit margin
- Operating expenses
- Net profit margin
- Return on assets
- Return on equity (ROE)
- Return on Investment (ROI)



# Financial Statement Analysis Examples

Please note that the following slides are taken from from <u>Understanding</u> <u>Financial Statements</u>, Eighth Edition, by Lyn M. Fraser and Aileen Ormiston

<b>Balance Sheets &amp; Income Statements</b>						
R.	E.C	.,Inc.				
CONSOLIDATED BALANCE SHEET (000)						
R.E.C., Inc.		2007	%	r	2006	%
ASSETS						
CURRENT ASSETS						
Cash and cash equivalents	\$	9,333	9.8%	\$	10,386	13.7%
Receivables:						
Trade, less allowance for doubtful accounts						
2007 \$448; 2006 \$417	\$	8,960	9.4%	\$	8,350	11.0%
	\$		0.0%	\$		0.0%
Inventory	\$	47,041	49.4%	\$	36,769	48.4%
Prepaid expenses	\$	512	0.5%	\$	759	1.0%
Other	\$		0.0%	\$		0.0%
Total current assets	\$	65,846	69.1%	\$	56,264	74.1%
FIXED ASSETS						
Plant, property, and equipment at cost						
Land	\$	811	0.9%	\$	811	1.1%
Building	\$	18,273	19.2%	\$	11,928	15.7%
Equipment	\$	21,523	22.6%	\$	13,768	18.1%
	\$		0.0%	\$		0.0%
	\$		0.0%	\$		0.0%
	\$		0.0%	\$		0.0%
	\$		0.0%	\$		0.0%
Gross plant, property, and equipment	\$	40,607	42.6%	\$	26,507	34.9%
Less accumulated depreciation and amortization	\$	11,528	12.1%	\$	7,530	9.9%
TOTAL FIXED ASSETS	\$	29,079	30.5%	\$	18,977	25.0%
OTHER ASSETS						

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LIABILITIES AND SHAREHOLDERS' EQUITY				
CURRENT LIABILITIES				
Note payable to bank	\$ 5,614	5.9%	\$ 6,012	7.9%
Current maturities of long-term debt	\$ 1,884	2.0%	\$ 1,516	2.0%
Trade accounts payable	\$ 14,294	15.0%	\$ 7,591	10.0%
Accrued expenses	\$ 5,669	5.9%	\$ 5,313	7.0%
Total current liabilities	\$ 27,461	28.8%	\$ 20,432	26.9%
LONG-TERM DEBT				
Less current maturities	\$ 21,059	22.1%	\$ 16,975	22.4%
DEFERRED INCOME TAXES	\$ 843	0.9%	\$ 635	0.8%
DEFERRED REVENUE	\$	0.0%	\$	0.0%
TOTAL LIABILITIES	\$ 49,363	51.8%	\$ 38,042	50.1%
SHAREHOLDERS' EQUITY				
Common stock, par value \$1 per share;				
authorized 10,000,000 shares; issued				
and outstanding 20074,803,000 shares;				
20064,594,000 shares	\$ 4,803	5.0%	\$ 4,594	6.1%
Additional paid-in capital	\$ 957	1.0%	\$ 910	1.2%
Retained earnings	\$ 40,175	42.2%	\$ 32,363	42.6%
TOTAL SHAREHOLDER'S EQUITY	\$ 45,935	48.2%	\$ 37,867	49.9%
TOTAL LIABILITIES AND EQUITY	\$ 95,298	100.0%	\$ 75,909	100.0%



R.E.C.,Inc.	r –	2007	%	r -	2006	%	r	2005	%
NET SALES									
Net sales	\$	215,600	100.0%	\$	153,000	100.0%	\$	140,700	100.0
Cost of goods sold	\$	129, 364	60.0%	\$	91,879	60.1%	\$	81,606	58.09
Gross Profit Margin	\$	86,236	40.0%	\$	61,121	39.9%	\$	59,094	42.0
OPERATING EXPENSES									
S&A, lease, D&A, and R&M	\$	52,735	24.5%	\$	38,523	25.2%	\$	38,297	27.29
Advertising	\$	14,258	6.6%	\$	10,792	7.1%	\$	9,541	6.8%
Total operating expenses	\$	66,993	31.1%	\$	49,315	32.2%	\$	47,838	34.0%
Operating Profit Margin	\$	19,243	8.9%	\$	11,806	7.7%	\$	11,256	8.0%
OTHER INCOME (EXPENSE)				-					
Interest expense	s	2.585	1.2%	\$	2.277	1.5%	s	1.274	0.9%
Interest income	ŝ	422	0.2%	\$	838	0.5%	\$	738	0.5%
Income before taxes	\$	17,080	7.9%	\$	10,367	6.8%	\$	10,720	7.6%
Federal and state income taxes	\$	7,686	3.6%	\$	4,457	2.9%	\$	4,824	3.4%
Net Profit Margin	\$	9,394	4.4%	\$	5,910	3.9%	\$	5,896	4.2%
NET INCOME PER COMMON AND									
COMMON EQUIVALENT SHARE		2007			2006			2005	
Primary	\$	1.96		\$	1.29		\$	1.33	
WEIGHTED AVERAGE COMMON									
AND COMMON EQUIVALENT									
SHARES OUTSTANDING		2007			2006			2005	
Primary		4,792			4.581			4,433	



Adjustment for second net income				
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Other insetting activities      5      285      5        Affect achie und in investing activities      \$      (13,360)      \$      (47,77)        XSH RCUM SPRCM FNANCKG ACTIVITES      2      5      1      3      255      5      1      3      255      5      1      3      2      5      1      3      2      5      1      3	3)	(4.773)	s	(3.98)
Net cash used in investing activities      \$          (13,895)      \$          (43,77)      \$          (47,77)      \$          (47,77)      \$          (47,77)      \$          (47,77)      \$          (47,77)      \$          (45	1	1.011.04	s	(0)00
Sale of common stock      \$      256      \$      18        Increase (decrease) in short-term borrowings      \$      (30)      \$      1.85        Additions to long-term borrowings      \$      5.000      \$      7.88        Reductions of long-term borrowings      \$      (1.50)      \$      7.88        Undends paid      \$      (1.52)      \$      (1.82)      \$	3) :	(4,773)	\$	(3,982
Increase(decrease) in short-term borrowings      \$ (30)      \$ 1,85        Additions to long-term borrowings      \$ 5,600      \$ 7,88        Reductions of long-term borrowings      \$ (1,516)      \$ (1,551)        Dividends paid      \$ (1,582)      \$ (1,582)	P.			
Increase(decrease) in short-term borrowings      \$ (30)      \$ 1,85        Additions to long-term borrowings      \$ 5,600      \$ 7,88        Reductions of long-term borrowings      \$ (1,516)      \$ (1,551)        Dividends paid      \$ (1,582)      \$ (1,582)	3 4	183	s	12
Additions to long-term borrowings      \$ 5,600      \$ 7,88        Reductions of long-term borrowings      \$ (1,516)      \$ (1,52)        Dividends paid      \$ (1,522)      \$ (1,522)				1.32
Reductions of long-term borrowings      \$ (1,516)      \$ (1,55)        Dividends paid      \$ (1,582)      \$ (1,882)				62
Dividends paid \$ (1,582) \$ (1,86		(1,593)		(12
				(1.84)
		6,464	\$	111
Increase in cash and cash equivalents \$ (1,053) \$ (2,07	6) :	(2,076)	\$	1,758
ASH AND CASH EQUIVALENTS				
	2 1	12,462	\$	10.704
		10.386		12,462


]	Ratios						
R.E.C.,Inc.							
R.E.C., Inc.	2007	2006	Category				
Current ratio - Pg. 198	2.40	2.75	Liquidity				
Quick ratio - Pg. 200	0.68	0.95	Liquidity				
Cash flow liquidity ratio - Pg. 200	0.70	0.32	Liquidity				
Working capital - Pg. 48	\$ 38,385	\$35,832	Liquidity				
Average collection period - Pg. 201	15	20	Activity/Efficiency				
Inventory in days - Pg. 202	131	144	Activity/Efficiency				
Days Payable Outstanding - Pg. 202	40	30	Activity/Efficiency				
Trade cycle - Pg. 202	0	0	Activity/Efficiency				
Cash conversion cycle - Pg. 202	0	0	Activity/Efficiency				
Fixed asset turnover - Pg. 204	7.41	8.06	Activity/Efficiency				
Total asset turnover - Pg. 204	2.26	2.02	Activity/Efficiency				
Debt ratio - Pg. 204	51.8%	50.1%	Leverage/Debt				
Debt to Equity - Pg. 205	1.07	1.0	Leverage/Debt				
Long-term debt to total capitalization - Pg. 205	31.4%	31.0%	Leverage/Debt				
Times interest earned - Pg.206	7.4	5.2	Leverage/Debt				
Cash flow adequacy - Pg. 207	4.6	-1.6	Leverage/Debt				
Gross profit margin - Pg. 207	40.0%	39.9%	Profitability				
Operating profit margin - Pg. 207	8.9%	7.7%	Profitability				
Net profit margin - Pg. 207	4.4%	3.9%	Profitability				
Cash flow margin - Pg. 208	4.6%	-2.5%	Profitability				
Return on investment(assets) - Pg. 208	9.9%	7.8%	Profitability				
Return on equity - Pg. 208	20.5%	15.6%	Profitability				
Cash return on assets - Pg. 209	10.5%	-5.0%	Profitability				
Price-to-earnings ratio - Pg. 211	15.3	13.2	Profitability				



			rporation		
OG Corporation					
Income Statement	Т	'his Year	%	Last Year	%
Net Sales	\$	680,000	100.0%	\$600,000	100.00%
Cost of goods sold	\$	410,000	60.3%	\$330,000	55.00%
Gross profit	\$	270,000	39.7%	\$270,000	45.00%
Operating expenses	\$	190,000	27.9%	\$192,000	32.00%
Operating income	\$	80,000	11.8%	\$78,000	13.00%
Interest expense	\$	7,000	1.0%	\$2,000	0.30%
Profit before taxes	\$	73,000	10.7%	\$76,000	12.70%
Taxes (.30)	\$	22,000	3.2%	\$22,800	3.80%
Net Income	\$	51,000	7.5%	\$53,200	8.90%



		e Sheet poration		
Balance Sheet	This Year	%	Last Year	%
Current assets				
Cash	\$ 50,000	8.8%	\$ 40,000	8.9%
Accounts receivable	\$ 80,000	14.0%	\$ 60,000	13.3%
Inventories	\$ 180,000	31.6%	\$ 110,000	24.4%
Total current assets	\$ 310,000	54.4%	\$ 210,000	46.7%
Fixed assets				
Plant & Equipment	\$ 300,000	52.6%	\$ 260,000	57.8%
Less accumulated depreciation	\$ (40,000)	-7.0%	\$ (20,000)	-4.4%
Total fixed assets	\$ 260,000	45.6%	\$ 240,000	53.3%
Total assets	\$ 570,000	100.0%	\$ 450,000	100.0%
Current liabilities				
Accounts payable	\$ 100,000	17.5%	\$ 150,000	33.3%
Accrued liabilities	\$ 70,000	12.3%	\$ 50,000	11.1%
Total current liabilities	\$ 170,000	29.8%	\$ 200,000	44.4%
Long term liabilities				
Mortgage payable	\$ 80,000	14.0%	\$ -	0.0%
Total long term liabilities	\$ 80,000	14.0%	s -	0.0%
Total liabilities	\$ 250,000	43.9%	\$ 200,000	44.4%
Owners equity				
Common stock	\$ 130,000	22.8%	\$ 90,000	20.0%
Retained earnings	\$ 190,000	33.3%	\$ 160,000	35.6%
Total owners equity	\$ 320,000	56.1%	\$ 250,000	55.6%
Total liabilities and equity	\$ 570.000	100.0%	\$ 450,000	100.0%

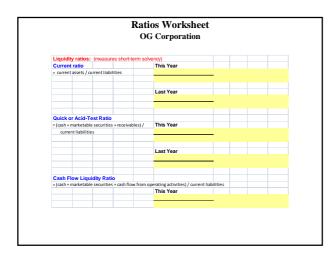


Statement of Cash F OG Corporation	lows		
OG Corporation (Indirect Method)			
Cash flow from operating activities:			
Net income	\$	51,000	
Noncash revenue and expense included in net income:			
Depreciation	\$	20,000	\$ 71,000
Cash provided by (used for) current operating assets and liabilities:			
Increase in accounts receivable	s	(20,000)	
Increase in inventory	s	(70,000)	
Decrease in accounts payable	s	(50,000)	
Increase in accured liabilities	Ś	20,000	
Net cash provided by (used for) operating activities			\$ (49,000
Cash flow from investing activities:			
Property, plant, & equipment		(40.000)	
Net cash provided by (used for) investing activities		(40,000)	\$ (40.000
Cash flow from financing activities:	s	40.000	
Mortgage loan	2	80.000	
Dividends paid	2	(21.000)	
Net cash provided by (used for) financing activities		(21,000)	\$ 99,000
Increase (decrease) in cash			\$ 10,000
Reconcile cash			
Beginning cash	s	40.000	
Increase in cash	5	10.000	
Ending cash	Ś	50,000	
	_		
Reconcile retained earnings			
Beginning retained earnings	s	160.000	
+ Net income	s.	51.000	
Dividends paid	s.	(21.000)	
Ending retained earnings	-	\$190,000	

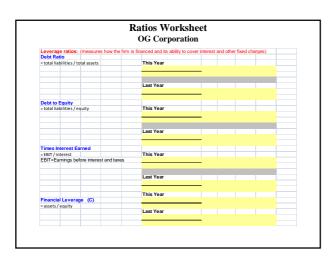


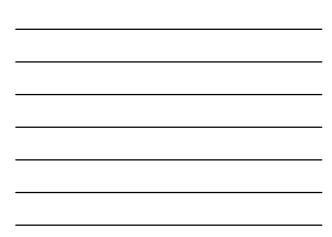
	Ratios Workshe						
OG Corporation							
OG	Corporation (Ratios) Worksheet						
Activity ratios: (measures the liquidity of Average Collection Period	specific assets and the efficiency of ma This Year	anaging assets)					
= (accounts receivable / sales) X 360	This real	days					
= (accounts receivable / sales) x 360		u ays					
	Last Year						
	Last tear						
		days					
Inventory Carrying Period	This Year						
= (inventory / cost of goods sold) x 360		days					
			_				
	Last Year		_				
	Last real	days					
		uays					
Fixed Asset Turnover	This Year						
= net sales / net PP&E		turns					
	Last Year		_				
	Last real	turns					
		Contra .					
Total Asset Turnover (B)	This Year						
= net sales / total assets		turns					
			_				
	Last Year						
	Last tear	turns					
		curris					
Accounts Payable Outstanding	This Year						
= (accounts payable / cost of goods sold) >	( 360	days					
	Last Year						
		days					









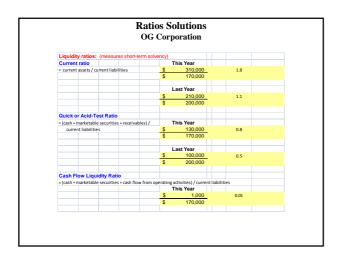


Ratios Worksheet								
OG Corporation								
Profitability ratios: (measures overall performance Gross Profit Margin	e - earning power - efficiency - return on investment)							
= gross profit / net sales	This Year							
	Last Year							
Operating Profit Margin = EBIT / net sales	This Year							
= EBIT / net Sales								
	Last Year							
Net Profit Margin (Earning Power) (A) = net income / net sales	This Year							
	Last Year							
Profitability of Investments								
1) Return on assets (Margins & Turnover) (A = [net income + interest X (1-tax rate)] / assets	This Year							
Image: second	Last Year							
2) Return on equity (Net Profit Margin x Total = net income / equity	Asset Turnover x Financial Leverage) (A x B x C) This Year							
	Last Year							

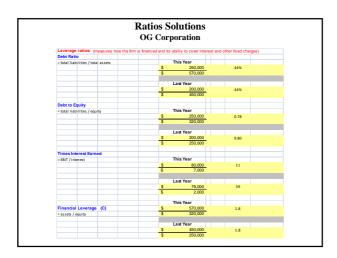


Ratios Solutions OG Corporation								
Average Collection Period								
= (accounts receivable / sales) X 360	\$	80,000 680,000	×	360	42	days		
		Last Year						
	s	60.000	_	250	36	davs		
	5	600.000	·*	360	36	days		
Inventory Carrying Period		This Year						
= (inventory / cost of goods sold) x 360	\$	180.000	~	360	158	davs		
	Ś	410.000	۰.	300	150	uuya		
	1	Last Year						
	\$	110,000		360	120	days		
	\$	330,000						
Fixed Asset Turnover		This Year						
= net sales / net PP&E	\$	680,000			2.6	turns		
	\$	260,000						
		ast Year	_					
		600.000						
	\$	240.000			2.5	turns		
Total Asset Turnover (B)		This Year						
= net sales / total assets	s	680.000			1.2	turns		
	s	570.000				Con 113		
		Last Year						
	\$	600,000			1.3	turns		
	\$	450,000						
Accounts Payable Outstanding		This Year						
= (accounts payable / cost of goods sold) X 360	\$	100,000	×	360	88	days		
	\$	410,000						
		Last Year						
	\$	150,000	×	360	164	days		
	\$	330,000						











Ratios Solutions									
OG Corporation									
Profitability ratios: (measures overall	performance	- earning power - e	fficiency - return on inv	estment)					
Gross Profit Margin									
= gross profit / net sales		This Year							
	\$	270,000	40%						
	\$	680,000							
		Last Year							
	\$	270,000	45%						
	\$	600,000							
Operating Profit Margin									
= EBIT / net sales		This Year							
EBIT=Earnings before interest and taxes	\$	80,000	11.8%						
	\$	680,000							
	_	Last Year							
	\$	78,000	13.0%						
	s	600.000	13.076						
Net Profit Margin (Earning Power) (									
= net income / net sales		This Year							
	\$	51,000	7.5%						
	\$	680,000							
		Last Year							
	\$	53,200	8.9%						
	\$	600,000							



