Chapter 3

Operating Decisions and the Accounting System

Learning Objectives

After studying this chapter, you should be able to:

- **3-1** Describe a typical business operating cycle and explain the necessity for the time period assumption.
- **3-2** Explain how business activities affect the elements of the income statement.
- **3-3** Explain the accrual basis of accounting and apply the revenue and expense recognition principles to measure income.
- **3-4** Apply transaction analysis to examine and record the effects of operating activities on the financial statements.
- **3-5** Prepare a classified income statement.
- **3-6** Compute and interpret the net profit margin ratio.
- **3-7** Identify operating transactions and demonstrate how they affect cash flows.

3-1 Describe a typical business operating cycle and explain the necessity for the time period assumption.

3-3

Understanding the Business了解企业

How do business activities affect the income statement? 经营活动如何影响利润表

How are these activities recognized and measured?

如何确认和计量这些经营活动

How are these activities reported on the income statement? 这些经营活动如何在利润表中体现



The Operating Cycle 2

Time period assumption: The long life of a company can be reported in shorter time periods, such as months, quarters, and years.

会计分期假设:为满足决策者的信息需求,将公司较长的经营寿人为划分为较短的时间段来报告财务报表(月度、季度、年度)

- Two issues arise when reporting periodic income:
- 1) Recognition issues: **When** should the effects of operating activities be recognized (recorded)?何时记
- 2) Measurement issues: What amounts should be recognized?记多少

3-2 Explain how business activities affect the elements of the income statement.

3-7

Elements of the Income Statement利润表的要素

Revenues

Increases in assets or settlements of liabilities from the major or central ongoing operations.经营活动带来资产的增加或负债的减少

Expenses

Decreases in assets or increases in liabilities from ongoing operations incurred to generate revenues.经营活动带来资产的减少或者负债的增加

Gains

Increases in assets or settlements of liabilities from peripheral transactions.非经营活动带来的资产的增加或负债的减少

Losses

Decreases in assets or increases in liabilities from peripheral transactions.非经营活动带来资产的减少或者负债的增加

利润表的要素

经营活动(主营业务)

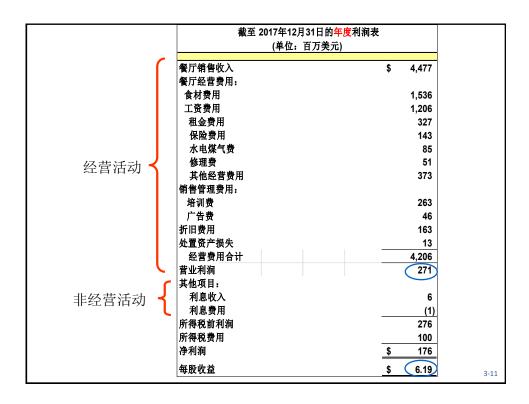
非经营活动 (非主营业务)

非经营活动,也可能具有 连续性和日常性

会原基本不会涉及非经常项目/非连续性经营活动 (extraordinary item/ discontinuing operations)

3-9

Exhibit 3.1 Chipotle Mexican Grill's Income Statement CHIPOTLE MEXICAN GRILL, INC. Consolidated Statement of Income *The information has been For the Year ended December 31, 2017 (in millions of dollars, except per share data) adapted from actual Restaurant sales revenue \$4,477 statements and Restaurant operating expenses: simplified for this Supplies expense 1.536 1,206 Includes salaries expense Wages expense chapter. Rent expense 327 Insurance expense 143 Utilities expense activities (central focus Repairs expense 51 373 Other operating expenses of business) General and administrative expenses: 263 Includes pre-opening costs Training expense Advertising expense 163 Depreciation expense Loss on disposal of assets Total operating expenses Income from operations 4,206 271 Other items: activities (not central focus Interest revenue Interest expense of business) Income before income taxes 276 Income tax expense 100 Also called Provision for Income Taxes \$ 176 \$6.19 Net income = \$176 million Net Income ÷ about 28.4 million weighted average number of common stock shares outstanding (per 2017 annual report) Earnings per share 3-10



Operating Revenues营业收入

Operations of the business: the sale of goods or rendering of services as the central focus of the business 主业

• e.g., When Chipotle sells burritos, it has earned revenue.

Revenues

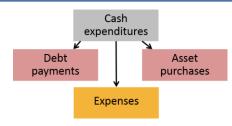
• Any increases in assets or settlements of liabilities from the major or central ongoing operations of the business

Operating Expenses营业费用

Operating expenses are outflows or the using up of assets or increases in liabilities from ongoing operations incurred to generate revenues during the period.为创造营业收入而耗费的资产或者增加的负债

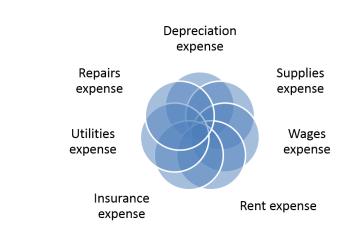
Don't confuse expenditures and expenses! An **expenditure**支出 is an **outflow of cash**现金支出 for any purpose, whether to buy equipment, pay off a bank loan, or pay employees their wages.

Therefore, not all cash expenditures are expenses!



3-13

Examples of Chipotle's Operating Expenses



Other Income Statement Items其他利润表项目

Interest or Dividend Revenue 利息/红利收入

Interest Expense利息费用

Gains (or Losses) on Sale of Investments投资损益

Income Tax Expense所得税费用

Corporations are required to disclose earnings per share (EPS) on the income statement or in the notes to the financial statements.

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DATA ANALYTICS

Using Big Data in the Restaurant Industry to Increase Revenues and Decrease Costs

- Thanks to significant improvements in computing power, storage space, access to the cloud, and new software, businesses can collect and analyze incredible amounts and types of data to enhance revenues and reduce costs.
- Data sources include point-of-sale terminals and information systems related to accounting, inventory, scheduling, marketing, and more.
- McDonald's uses data to predict customer demand in drive-thru sales.
- Wendy's analyzes big data to identify the most profitable new restaurant locations.
- Pizza Hut uses software to track customer eye movements on digital, interactive menus in some of its restaurants to discover what customers subconsciously want.

How Are Operating Activities Recognized and Measured? 如何确认计量经营活动

Cash Basis Accounting收付实现制(现金制): Record revenues when cash is received and expenses when cash is paid.

Revenue = cash received

<u>Less: Expenses = cash payments</u>

Net Income (cash basis)

The cash basis may be adequate for organizations that do not need to report to external users, such as small businesses.

Cash basis accounting may lead to an incorrect interpretation of future company performance.

GAAP does not allow the cash basis of accounting. 会计准则不允许现金制!

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Cash Basis Accounting

Cash Basis Income Statements	Year 1	Year 2	Year 3	<u>Total</u>
Sales on credit	\$60,000	\$60,000	\$60,000	\$180,000
Cash receipts from customers	\$20,000	\$70,000	\$90,000	\$180,000
Cash disbursements for:				
Salaries to employees	(30,000)	(30,000)	(30,000)	(90,000)
Insurance for 3 years	(12,000)	(0)	(0)	(12,000)
Supplies	(3,000)	(7,000)	(5,000)	(15,000)
Net operating cash flows	\$(25,000)	\$33,000	\$55,000	<u>\$63,000</u>

Using cash basis accounting may lead to an incorrect interpretation of future company performance.

Simply looking at the first year, investors and creditors might interpret the negative cash flows as a problem with the company's ability to generate cash flows in the future.

3-3 Explain the accrual basis of accounting and apply the revenue and expense recognition principles to measure income.

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How Are Operating Activities Recognized and Measured? 2

Accrual Basis Accounting权责发生制(应计制)

Revenues and expenses are recognized when the transaction that causes them occurs, not necessarily when cash is paid or received. 收入和费用应该在交易发生时确认, 而不一定在收到或支付现金时.

Revenues are recognized when they are **earned** and expenses when they are **incurred** to generate revenues.

收入在赚取时确认,费用在发生时确认

Accrual Basis Accounting is required by:

Generally Acceptable Accounting Principles (GAAP)

一般公认会计准则

Exercise 3-1

Sleep Desk Pillow Company sells specialty pillows and accessories to customers. Its fiscal year ends on December 31. The following transactions occurred in the current year:

- a. Purchased \$280,000 of new pillow inventory; paid \$95,000 in cash and owed the rest on account.
- b. Paid employees \$183,500 in wages for work during the year; an additional \$4,700 for the current year's wages will be paid in January of the next year.
- c. Sold pillows to customers for \$765,000; received \$520,000 in cash and customers owed the rest on account. The cost of the pillow inventory to Sleep Desk Pillow was \$490,000.
- d. Paid \$18,400 cash for utilities for the year.
- e. Received \$65,000 from customers as deposits on orders of new pillows to be sold to the customers in January of the next year.
- f. Received a \$2,500 utilities bill for December of the current year that will be paid in January of the next year.

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Exercise 3-1 journal entries

a. Inventory	280000	
Cash		95000
Accounts Payable		185000
b. Wages expense	188200	
Cash		183500
Wages Payable		4700
c. Cash	520000	
Accounts receivable	245000	
Sales revenue		765000
COGS	490000	
Inventory		490000
d. Utility expense	18400	
Cash		18400
e. Cash	65000	
Unearned revenue	!	65000
f. Utility expenses	2500	
Utility payable		2500

Required:

1. Complete the following statements:

Cash Basis Income Statement	Accrual Basis Income Statement
Revenues:	Revenues:
Cash sales	Sales to customers
Customer deposits	
Expenses:	Expenses:
Inventory purchases	Cost of sales
Wages paid	Wages expense
Utilities paid	Utilities expense
Net income:	Net income:
	

2. Which basis of accounting (cash or accrual) provides more useful information to investors, creditors, and other users? Why?

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- 1. Complete the following statements:

Cash Basis Income Statement		Accrual Basis Income Statement	
Revenues:		Revenues:	
Cash Sales	\$520,000	Sales to customers	\$765,000
Customer deposits	65,000		
Expenses:		Expenses:	
Inventory purchases	95,000	Cost of sales	490,000
Wages paid	183,500	Wages expense	188,200
Utilities paid	18,400	Utilities expense	28,900
Net income:	\$288,100	Net income:	\$ 65,900

2. Which basis of accounting (cash or accrual) provides more useful information to investors, creditors, and other users? Why?

Accrual basis

- ✓ Revenues and expenses are recognized when the transaction occurs, not necessarily when cash is received or paid.
- ✓ Revenues are recognized when they are earned.
- ✓ Expenses are recognized when they are incurred to generate revenues.
- √ Therefore, generally accepted accounting principles require
 accrual basis accounting for financial reporting.
- ✓ More useful to external users.

Cash basis

- Normally postpone or accelerate recognition of revenues and expenses long before or after goods and services are produced and delivered (when cash is received or paid).
- Do not reflect all assets or liabilities of a company on a particular date.
- Not very useful to external users.

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Exhibit 3.2 Revenue Recognition Principle收入确认原则 Cash may be received... before food delivery when food is delivered TIME Record REVENUE here 1. When the company transfers promised goods or services to customers. 商品已经发出或者服务已经提供 2. In the amount it expects to be entitled to receive. 款项的收回有合理保证

Revenue Recognition Principle 1

(1) If cash is received <u>before</u> the company delivers goods or services, the liability account <u>UNEARNED REVENUE</u>预收收入is recorded.

On receipt of a \$100 cash:	Debit	Credit
Cash (+A)	100	
Unearned Revenue (+L)		100

On delivery of ordered food:	Debit	Credit
Unearned Revenue (-L)	100	
Restaurant Sales Revenue (+R, +SE)		100

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Revenue Recognition Principle 2

(2) When cash is received $\underline{\textit{in the same period}}$ as the goods or services are delivered.

On delivery of ordered food for \$12 cash:	Debit	Credit
Cash (+A)	12	
Restaurant Sales Revenue (+R, +SE)		12

Revenue Recognition Principle₃

(3) If cash is received <u>after</u> the company delivers goods or services, an asset <u>ACCOUNTS RECEIVABLE</u> is recorded.

On delivery of ordered food for \$50 on account:	Debit	Credit
Accounts Receivable (+A)	50	
Restaurant Sales Revenue (+R, +SE)		50

On receipt of cash after delivery:	Debit	Credit
Cash (+A)	50	
Accounts Receivable (-A)		50

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Revenue Recognition for More Complex Customer Contracts

The FASB and IASB issued a joint revenue recognition accounting standard effective for 2018 financial statements.

\$\$\$

FINANCIAL ANALYSIS

The standard specifies five steps to recognizing revenue:

- Identify the contract between the company and the customer.识别与客户间存在合同
- Identify the performance obligations (promised goods and services).识别合同中约定的履约责任
- Determine the transaction price.确定交易对价
- Allocate the transaction price to the performance obligations.将交易对价分摊至相对应的履约责任
- Recognize revenue when each performance obligation is satisfied (or over time if a service is provided over time).在 企业完成履约责任时确认收入

Exercise 3-2

The following transactions occurred in October, Year1:

- a. A popular off road magazine company receives a total of \$23,960 today from subscribers. The subscriptions begin in the next fiscal year. Answer from the magazine company's standpoint.
- b. On October 1, Year 1, a bank lends \$2,400 to a company; the note principal and \$288 (\$2,400 × 12 percent) annual interest are due in one year. Answer from the bank's standpoint.
- c. Acura, Inc. sells a truck with a list, or "sticker," price of \$40,100 for \$36,100 cash.
- d. Belk's department store orders 1,000 men's shirts for \$30 each for future delivery from Ralph Lauren Corporation. The terms require payment in full within 30 days of delivery. Answer from Ralph Lauren's standpoint.
- e. Ralph Lauren Corporation completes production of the shirts described in (d) and delivers the order. Answer from Ralph Lauren's standpoint.
- f. Ralph Lauren Corporation receives payment from Belk's for the events described in (d) and (e). Answer from Ralph Lauren's standpoint.
- g. A customer purchases a ticket from Northwest for \$1,220 cash to travel the following January. Answer from Northwest's standpoint.

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- h. General Motors issues \$40 million in new common stock.
- i. University of North Carolina receives \$36,600,000 cash for 160,000 five-game season football tickets.
- j. University of North Carolina plays the first football game referred to in (i).
- k. Home Improvement signs a contract with a customer for the construction of a new \$3,000,000 warehouse. At the signing, Home Improvement receives a check for \$300,000 as a deposit on the future construction. Answer from Home Improvement's standpoint.
- A customer orders and receives 20 personal computers from Apple; the customer promises to pay \$36,800 within three months. Answer from Apple's standpoint.
- m. JC Penneys, a retail store, sells a \$200 lamp to a customer who charges the sale on his store credit card. Answer from JC Penneys's standpoint.

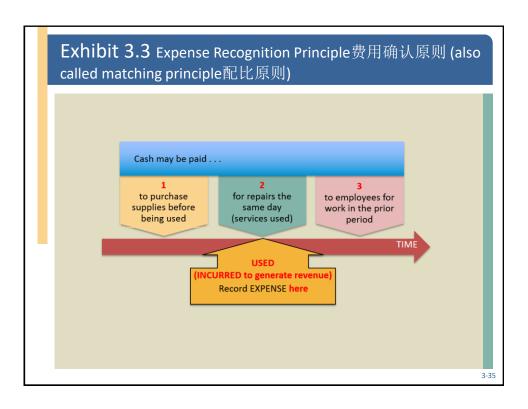
Required:

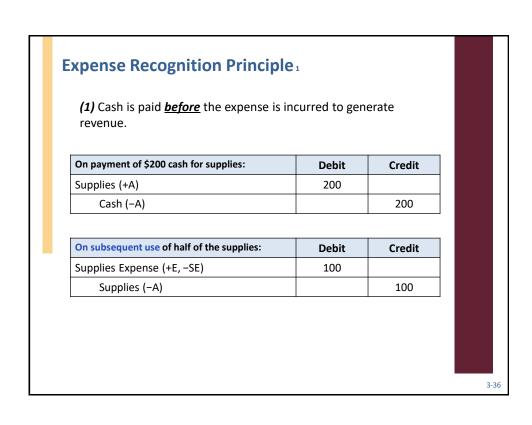
For each of the transactions, if revenue is to be recognized in October, indicate the revenue account title and amount. If revenue is not to be recognized in October, explain why.

Activity	Revenue Account Title	Amount of Revenue Recognized in October
a.	None	No revenue earned in October; earnings process is not yet complete.
b.	Interest Revenue	\$24 (\$ 2,400 × 12% × 1 month/12 months)
C.	Sales Revenue	\$36,100
d.	None	No transaction has occurred; exchange of promises only.
e.	Sales Revenue	\$30,000 (1,000 shirts \times \$ 30 per shirt); revenue earned when goods are delivered.
f.	None	Payment related to revenue recorded previously in (e) above.
g.	None	No revenue earned in October; earnings process is not yet complete.
h.	None	No revenue is earned; the issuance of stock is a financing activity.
i.	None	No revenue earned in October; earnings process is not yet complete.

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Activity	Revenue Account Title	Amount of Revenue Recognized in October
j.	Ticket Sales Revenue	\$7,320,000 (\$ 36,600,000 ÷ 5 games)
k.	None	No revenue earned in October; earnings process is not yet complete.
I.	Sales Revenue	\$36,800
m.	Sales Revenue	\$200





Expense Recognition Principle 2

(2) Cash is paid <u>in the same period</u> as the expense is incurred to generate revenue.

On payment of \$275 cash for using repair service	Debit	Credit
Repairs Expense (+E, –SE)	275	
Cash (-A)		275

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Expense Recognition Principle₃

(3) Cash is paid <u>after</u> the expense is incurred to generate revenue.

On the use of \$400 in employees' services during the period:	Debit	Credit
Wages Expense (+E, -SE)	400	
Wages Payable (+L)		400

On payment of cash after using employees:	Debit	Credit
Wages Payable (-L)	400	
Cash (-A)		400

Exercise 3-3

The following transactions occurred in February, Year 1:

- a. The Nabisco Companies use \$3,000 worth of electricity and natural gas in their headquarters building for which it has not yet been billed.
- b. At the beginning of February, Home Improvement Company pays \$900 for magazine advertising to run in monthly publications each of the first three months of the year.
- c. Apple pays its computer service technicians \$400,000 in salaries for the two weeks ended February 7. Answer from Apple's standpoint.
- d. The University of North Carolina orders 120,000 season football tickets from its printer and pays \$15,220 in advance for the custom printing. The first game will be played in September. Answer from the university's standpoint.
- e. The campus bookstore receives 1,000 accounting texts at a cost of \$90 each. The terms indicate that payment is due within 30 days of delivery.
- f. During the last week of February, the campus bookstore sold 500 accounting texts received in (e) at a sales price of \$140 each.
- g. General Motors, Inc., pays its salespersons \$14,400 in commissions related to December automobile sales. Answer from General Motors standpoint.

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- h. On February 28, General Motors, Inc., determines that it will pay its salespersons \$15,500 in commissions related to February sales. The payment will be made in early March. Answer from General Motor's standpoint.
- i. A new grill is purchased and installed at a Burger King restaurant at the end of the day on February 28; a \$13,250 cash payment is made on that day.
- j. North Point Mall had janitorial supplies costing \$5,000 in storage. An additional \$4,000 worth of supplies was purchased during February. At the end of February, \$1,600 worth of janitorial supplies remained in storage.
- k. An Arizona State University employee works eight hours, at \$12 per hour, on February 28; however, payday is not until March 3. Answer from the university's point of view.
- I. Fong Company paid \$4,800 for a fire insurance policy on February 1. The policy covers 24 months beginning on February 1. Answer from Fong's point of view.
- m. Benton Incorporated has its delivery van repaired in February for \$450 and charges the amount on account.
- n. Farm Implement Company, a farm equipment company, receives its phone bill at the end of February for \$175 for February calls. The bill has not been paid to date.
- o. Kenworth Company receives and pays in February a \$2,500 invoice (bill) from a consulting firm for services received in February.
- p. Lynx Technology Company pays a \$675 invoice from a consulting firm for services received and recorded in December.

q. Tommy Bahama Corporation completes production of 500 men's shirts ordered by Macy's department stores at a cost of \$15 each and delivers the order. Answer from Tommy Bahama's standpoint.

Required:

For each of the transactions, if an expense is to be recognized in February, indicate the expense account title and amount. If an expense is not to be recognized in February, indicate why.

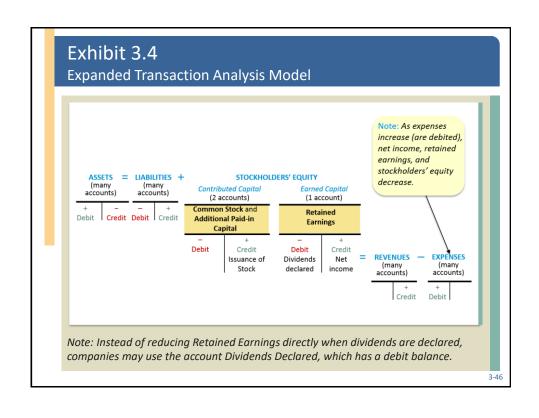
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Activity	Expense Account Affected	Amount of Expense Incurred in February
a.	Utilities Expense	\$3,000
b.	Advertising Expense	\$300 (\$900 × 1 month/3 months) incurred in February. The remainder is a prepaid expense (A) that is not incurred until March and April.
C.	Salary Expense	\$200,000 incurred in February. The remaining half was incurred in January.
d.	None	Expense will be recorded when the related revenue has been earned.
e.	None	Expense will be recorded in the future when the related revenue has been earned.
f.	Cost of Goods Sold	\$450,000 (5,000 books × \$90 per book)
g.	None	December expense paid in February.

Activity	Expense Account Affected	Amount of Expense Incurred in February
h.	Commission Expense	\$15,500
i.	None	Will be recorded as depreciation over the equipment's useful life
j.	Supplies Expense	\$7,400 (\$5,000 + \$4,000 - \$1,600)
k.	Wages Expense	\$96 (8 hours × \$12 per hour)
I.	Insurance Expense	\$200 (\$ 4,800 ÷ 24 months)
m.	Repairs Expense	\$450
n.	Utilities Expense	\$175
0.	Consulting Expense	\$2,500
p.	None	December expense paid in February.
q.	Cost of Goods Sold	\$7,500 (500 shirts × \$15 per shirt)

		olate Accounti	ŭ	OF ETH
The CEO	The Fraud	Conviction/Plea	The Outcome	
Joseph J. Erves, 53 MARTA (Atlanta's public transportation operator)	Falsified maintenance expense invoices that funneled payments to his personal bank account.	Convicted, January 2018	Sentenced to 2 years, 9 months	
Oliver Schmidt, 48 Volkswagen Group	Installed software on diesel cars to cheat emissions performance tests in the U.S.	Pleaded guilty to the conspiracy, December 2017	Sentenced to 7 years	
Holli Dawn Coulman, 44 Hewlett Packard	As executive assistant to HP senior vice president, used corporate credit cards to support her lavish lifestyle and other personal expenses.	Pleaded guilty to falsifying employee expenses, August 2015	Sentenced to 20 months; pay nearly \$1 million in restitution	
Elaine Martin, 67 MarCon, Inc.	Failed to record sales of used materials.	Convicted, February 2014	Sentenced to 7 years	
Annette Bongiorno, 62, and Joann Crupi, 49 Madoff Investment Securities	Recorded trades of securities in the wrong accounting period as part of a Ponzi scheme.	Convicted, December 2014	Sentenced to 6 years each; forfeit a total of \$188.9 billion	
Bernard Madoff, 71 Madoff Investment Securities	Scammed \$50 billion from investors in a Ponzi scheme (in which investors receive "returns" from money paid by subsequent investors).	Confessed, December 2008	Sentenced to 150 years	
Bernie Ebbers, 65 Worldcom	Recorded \$11 billion in operating expenses as if they were assets.	Convicted, July 2005	Sentenced to 25 years	
Barry Minkow ,* 21 ZZZZ Best	Made up customers and sales to show profits when, in reality, the company was a sham.	Convicted, December 1988	Sentenced to 25 years	

3-4 Apply transaction analysis to examine and record the effects of operating activities on the financial statements.



In summary:

Understand how revenues and expenses impact the balance sheet and income statement:

REVENUES

- Increase net income and stockholders' equity
- 1 with Credits
- Accounts have credit balances

EXPENSES

- Decrease net income and stockholders' equity
- 1 with Debits
- Accounts have debit balances

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Exhibit 3.5

Transaction Analysis Steps

Step 1: Ask → Was a revenue earned by delivering goods or services?

If so, credit the revenue account and debit the appropriate accounts for what was received.

or **Ask** → Was an expense incurred to generate a revenue in the current period?

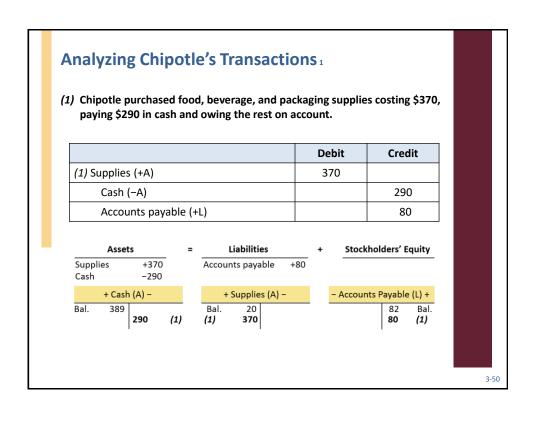
If so, debit the expense account and credit the appropriate accounts for what was given.

or **Ask** → If no revenue was earned or expense incurred, what was received and given?

- Identify the accounts affected by title (e.g., Cash and Notes Payable). Remember: Make sure that at least two accounts change.
- Classify them by type of account: asset (A), liability (L), stockholders' equity (SE), revenue/gain (R), or expense/loss (E).
- Determine the direction of the effect. Did the account increase (+) or decrease (-)?

Step 2: Verify → Is the accounting equation in balance? (A = L + SE)

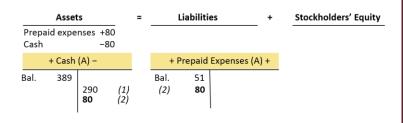
Chipotle Mexicar	n Grill's	Trial I	Balar	nce		
,						
CHIPOTLE MEXIC			_	(in millions)	Debit	Credit
based on investing and fin		actions		Accounts payable		82
during the first quarter end	led March 31	l, 2018)		Unearned revenue		64
(in millions)	Debit	Credit		Dividends payable		2
Cash	389			Income taxes payable		18
Short-term investments	333			Wages payable		83
Accounts receivable	49		_	Utilities payable		77
Supplies	20		_	Notes payable (current)		0
Prepaid expenses	51		_	Notes payable (noncurrent)		80
Land	21		_	Other liabilities		279
Buildings	1,711		_	Common stock		2
Equipment	637		_	Additional paid-in capital		1,604
Accumulated depreciation		979		Treasury stock	2,334	
Long-term investments	35			Retained earnings		2,391
Intangible assets	81			Total	5,661	5,661



Analyzing Chipotle's Transactions 2

(2) At the beginning of January, Chipotle paid \$80 cash for rent, insurance, and advertising to be used in the future (all prepaid expenses).

	Debit	Credit
(2) Prepaid expenses (+A)	80	
Cash (–A)		80

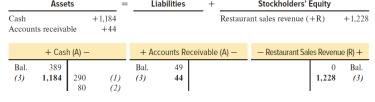


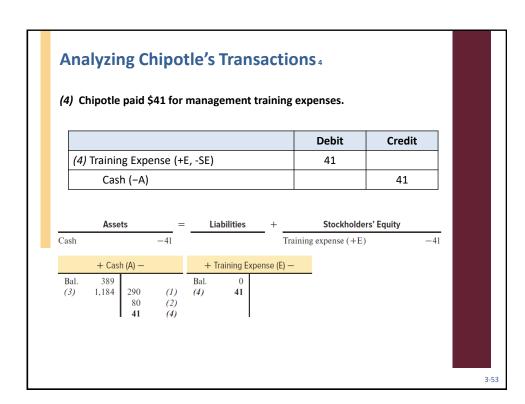
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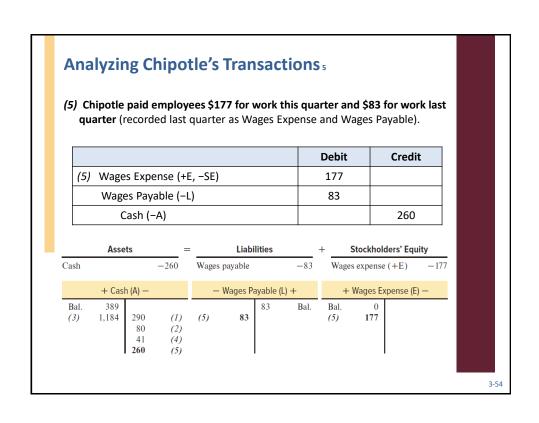
Analyzing Chipotle's Transactions 3

(3) During the first quarter, Chipotle sold food and beverages to customers for \$1,228; \$44 was sold to universities on account (to be paid by the universities next quarter) and the rest was received in cash in the stores. NOTE: To measure revenues and expenses in a period, these accounts begin with a \$0 balance; notice they are not listed on the trial balance in Exhibit 3.6 because they have no balances yet.

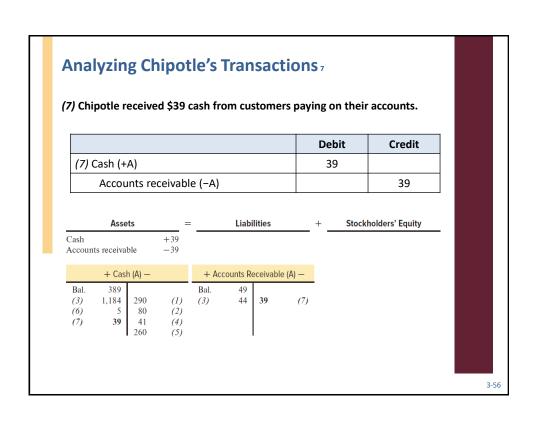
		Debit	Credit
(3)	Cash (+A)	1,184	
	Accounts receivable (+A)	44	
	Restaurant sales revenue (+R, +SE))		1,228
		•	







Analyzing Chipotle's Transactions 6 (6) Chipotle sold equipment costing \$9 for \$5 cash, resulting in a loss of \$4 (ignore any accumulated depreciation on the equipment, which will be explained in more depth in Chapter 8). Debit Credit (6) Cash (+A) 5 Loss on disposal of assets (+E, -SE) 4 Equipment (-A) 9 Liabilities Loss on disposal of assets (+E) Equipment Loss on Disposal + Cash (A) -+ Equipment -Bal. Bal. 637 Bal. (1) (2) (4) (5) (3) (6) 1,184 5 290 (6) (6) 80

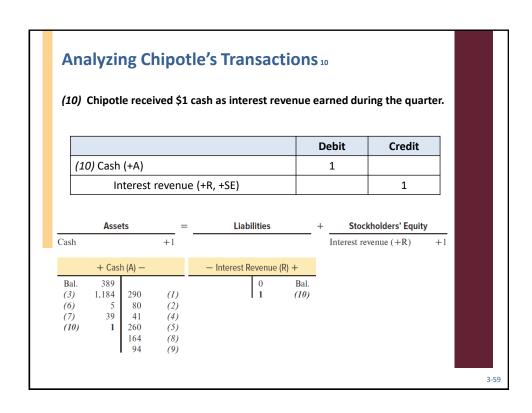


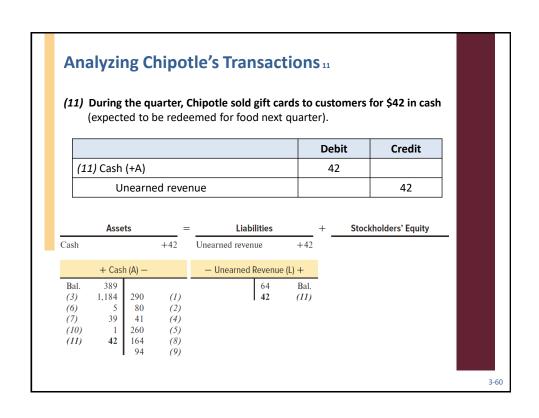
Cash

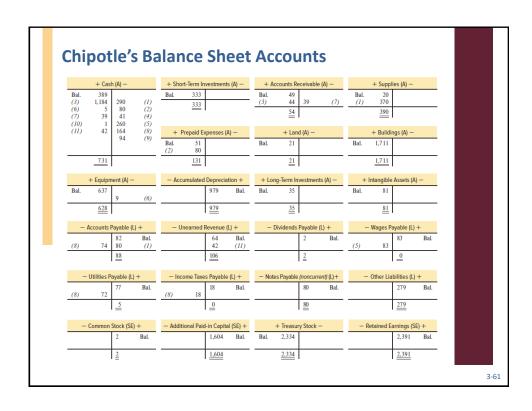
164

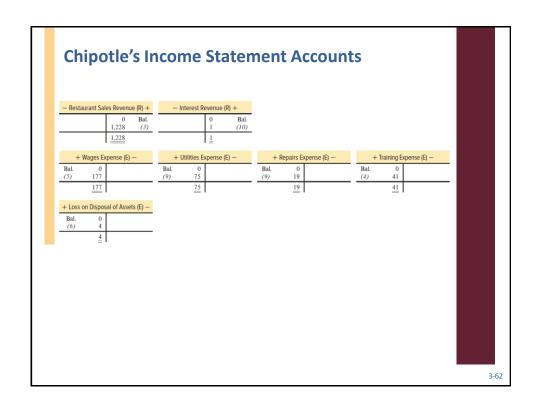
Analyzing Chipotle's Transactions 9 (9) Chipotle paid \$75 for utilities used during the quarter and paid \$19 for repairs of its buildings and equipment during the quarter. Debit Credit (9) Utilities expense (+E, -SE) 75 Repairs Expense (+E, -SE) 19 Cash Assets Liabilities Stockholders' Equity Utilities expense (+E) Repairs expense (+E) + Utilities Expense (E) -+ Cash (A) -+ Repairs Expense (E) -Bal. 389 Bal. 0 75 Bal. 0 **19** 290 (3) 1,184 (9) (9) (2) (4) (6)80 (7)39 41 260 (5) 3-58

29









Exercise 3-4

At January 1 (beginning of its fiscal year), Takeover, Inc., a financial services consulting firm, reported the following account balances (in thousands, except for par and market value per share):

Cash	2,850	Accounts payable	315
Short-term investments	615	Unearned revenue	1,980
Accounts receivable	5,355	Salaries payable	1,305
Supplies	225	Short-term note payable	1,170
Prepaid expenses	7,080	Common stock (\$1 par value)	75
Office equipment	2,295	Additional paid-in capital	9,840
Accumulated depreciation— office equipment*			

Required:

- Prepare journal entries for the following transactions for the current year. Use the balance sheet account titles above and the revenue or expense account titles mentioned in requirement (2):
 - a. Received \$14,250 cash for consulting services rendered.
 - b. Issued 10 additional shares of common stock at a market price of \$120 per share.
 - Purchased \$960 of office equipment, paying 25 percent in cash and owing the rest on a short-term note.
 - Received \$1,335 from clients for consulting services to be performed in the next year.
 - e. Bought \$705 of supplies on account.

3-6

- Prepare journal entries for the following transactions for the current year. Use the balance sheet
 account titles above and the revenue or expense account titles mentioned in requirement (2):
 - f. Incurred and paid \$2,700 in utilities for the current year.
 - g. Consulted for clients in the current year for fees totaling \$2,430, due from clients in the next year.
 - h. Received \$4,470 from clients paying on their accounts.
 - i. Incurred \$9,315 in salaries in the current year, paying \$7,950 and owing the rest (to be paid next year).
 - j. Purchased \$1,845 in short-term investments and paid \$1,200 for insurance coverage beginning in the next fiscal year.
 - k. Received \$15 in interest revenue earned in the current year on short-term investments.
- Create T-accounts for the balance sheet accounts and for these additional accounts: Consulting
 Fees Revenue, Interest Revenue, Salaries Expense, and Utilities Expense. Enter the beginning
 balances of the balance sheet accounts. Takeover's income statement accounts had zero balances.
 Post the journal entry effects in requirement (1) above into the T-accounts, using the letter of each
 transaction as the reference.

3.	Using the data from	the T-accounts, amou	ints for the following at the end of the current year were
	Revenues \$	- Expenses \$	= Net Income \$

4. What would net income be if Takeover, Inc., used the cash basis of accounting? Why does this differ from accrual basis net income [in requirement (3)]?

Assets \$ _____ = Liabilities \$ ____ + Stockholders' Equity \$ ___

			(\$ in millions
	Account Titles and Explanation	Debit	Credit
a.	Cash (+A)	14,250	
	Consulting fees revenue (+R, +SE)		14,250
b.	Cash (+A)	1,200	
	Common stock (+SE)		10
	Additional paid-in capital (+SE)		1,190
c.	Office equipment (+A)	960	
	Cash (-A)		240
	Short-term note payable (+L)		720
d.	Cash (+A)	1,335	
	Unearned revenue (+L)		1,335
e.	Supplies (+A)	705	
	Accounts payable (+L)		705
f.	Utilities expense (+E, -SE)	2,700	
	Cash (-A)		2,700

			(\$ in millions)
	Account Titles and Explanation	Debit	Credit
h.	Cash (+A)	4,470	
	Accounts receivable (-A)		4,470
i.	Salaries expense (+E, –SE)	9,315	
	Cash (-A)		7,950
	Salaries payable (+L)		1,365
j.	Short-term investments (+A)	1,845	
	Cash (-A)		1,845
	Prepaid Expenses (+A)	1,200	
	Cash (-A)		1,200
k.	Cash (+A)	15	
	Interest revenue (+R, +SE)		15

 Create T-accounts for the balance sheet accounts and for these additional accounts: Consulting Fees
Revenue, Interest Revenue, Salaries Expense, and Utilities Expense. Enter the beginning balances of the
balance sheet accounts. Takeover's income statement accounts had zero balances. Post the journal entry
effects in requirement (1) above into the T-accounts, using the letter of each transaction as the reference. + Short-term investments (A) -+ Accounts Receivable (A) -+ Cash (A) -Beg. 615 1,845 Beg. 240 Beg. 5,355 4,470 (h) (g) 2,430 14,250 2,700 (f) 7.950 (b) 1,200 (i) 2,460 3,315 1,845 (d) 1,335 (j) + Prepaid expenses (A) -+ Supplie 1,200 (h) (j) 7,080 1,200 4,470 Beg. Beg. 225 (k) (e) (j) 10,185 8,280 Office equipment (A) -- Accum. depreciation -office equipment (L) + Beg. 720 315 Beg. (c) 960 705 (e) 720 1,020 3,255 - Unearned revenue (L) + 1,980 1,335 Salaries payable (L) 1,305 1,365 - Short-term note payable (L) + Beg. (d) 1,170 Beg. 720 (c) (i) 3,315 2,670 1,890 - Common Stock (SE) + - Additional Paid-in Capital (SE) + - Retained Earnings (SE) + Beg. 9,840 Beg. 75 3,015 4,680 Beg. Net income (b) 1.190 (b) 85 11,030 - Consulting fees revenue (R) + - Interest revenue (R) + + Salaries expense (E) -+ Utilities Expense (E) Beg. (a) (g) Beg. 0 9,315 Beg. (f) 0 2,700 0 15 14,250 2,430 (i) 2,700 9,315 16,680 3-67

	Expenses \$ _ = Liabilities \$				
	\$16,695 -	\$12,015 =	\$4,680		
	\$28,425 =	\$9,615 +	\$18,810		
4.	et income be if Takeove ne [in requirement (3)]?		e cash basis of ac	counting? Why does t	nis differ from a
	\$21,270 -	\$13,935 =	\$7,335		

3-5 Prepare a classified income statement.

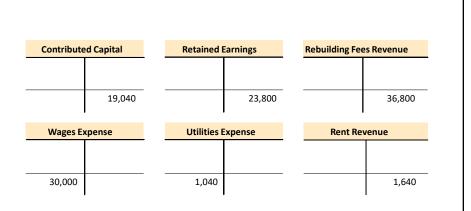
3-69

How Is the Income Statement Prepared and Analyzed? 1

CHIPOTLE MEXICA Unadjusted Trial B For the first quarter ended M	alance	
(in millions)	Debit	Credit
Cash	731	
Short-term investments	333	
Accounts receivable	54	
Supplies	390	
Prepaid expenses	131	
Land	21	
Buildings	1,711	
Equipment	628	
Accumulated depreciation		979
Long-term investments	35	
Intangible assets	81	
Accounts payable		88
Unearned revenue		106
Dividends payable		2
Income taxes payable		0
Wages payable		0
Utilities payable		5
Notes payable (current)		0
Notes payable (noncurrent)		80
Other liabilities		279
Common stock		2
Additional paid-in capital		1,604
Treasury stock	2,334	
Retained earnings		2,391
Restaurant sales revenue		1,228
Interest revenue		1
Wages expense	177	
Utilities expense	75	
Repairs expense	19	
Training expense	41	
Loss on disposal of assets	4	
Income tax expense	0	
Total	6,765	6,765

Classified Income Statement	CHIPOTLE MEXICAN GRILL, Consolidated Statement of Inco UNADJUSTED For the Quarter ended March 31, (in millions of dollars)	ome
	Restaurant sales revenue Restaurant operating expenses: Wages expense Utilities expense Repairs expense General and administrative expenses: Training expense Loss on disposal of assets Total operating expenses Income from operations Other items: Interest revenue Income before income taxes Income tax expense Net income	\$1,228 177 75 19 41 4 316 912 1 913 0 \$ 913 , it would not be

Exercise 3-5 Barkley's Engine Rebuilding Company has been operating for one year and one month (Since January 1, year 1). Ending balances (unadjusted) for the next year for Barkley's as of January 31, year 2 are shown in the following T-accounts: Cash **Accounts Receivable** Supplies 25,040 45,600 4,800 Building Equipment Land 21,040 52,800 14,400 **Notes Payable Accounts Payable Unearned Fee Revenue** 15,960 8,880 96,000 3-72



Required:

Use the ending balances in the T-accounts to prepare an unadjusted classified income statement for January, year 2 (ignore income taxes).

3-73

BARKLEY'S ENGINE REBUILDING COMPANY Income Statement (unadjusted) For the Month ended January 31, year 2				
Operating revenues:				
Rebuilding fees revenue	\$36,800			
Total operating revenues	36,800			
Operating expenses:				
Wages expense	30,000			
Utilities expense	1,040			
Total operating expenses	31,040			
Income from operations	5,760			
Other items:				
Rent revenue	1,640			
Net Income	\$ 7,400			

3-6 Compute and interpret the net profit margin ratio.

-R-75

Net Profit Margin Ratio

KEY RATIO ANALYSIS

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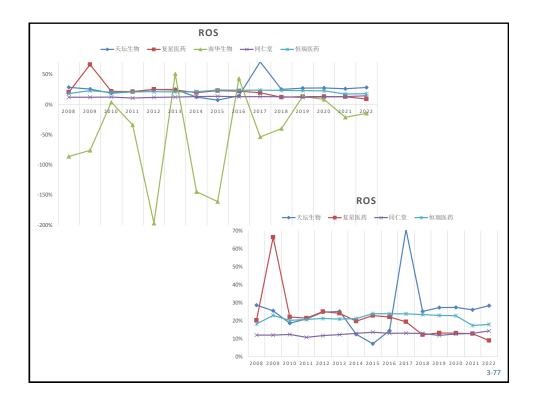
How effective is management in generating profit on every dollar of sales?

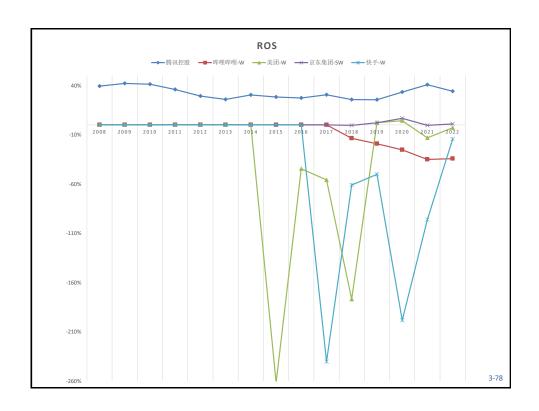
Net Profit Margin = Net Income

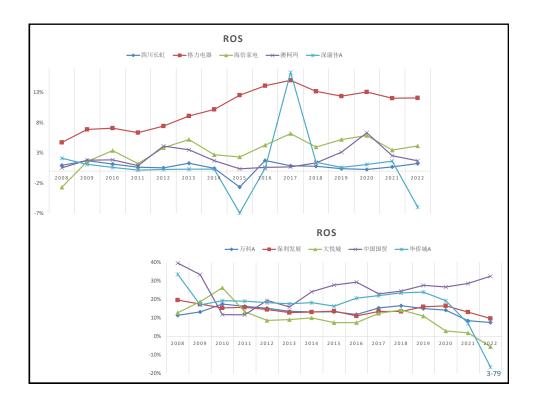
Net Sales (or Operating Revenues)

A rising **net profit margin (Return on Sales, ROS)** signals more efficient management of sales and expenses.

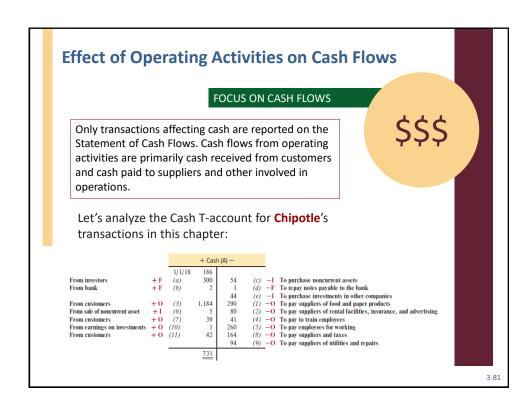
Note: Net sales is sales revenue less any returns from customers and other reductions. For companies in the service industry, total operating revenues is equivalent to net sales.







3-7 Identify operating transactions and demonstrate how they affect cash flows.



P147 E3-3 P148 E3-4 P150 E3-8 P153 E3-17