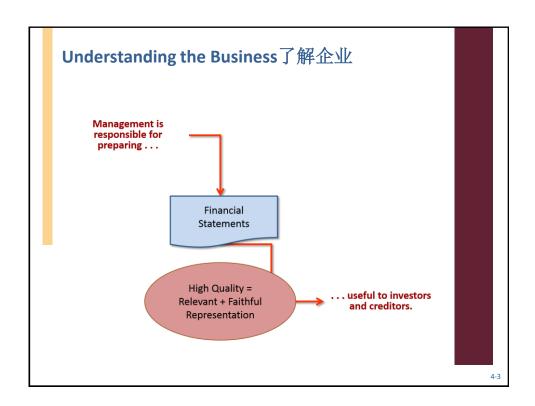
Chapter 4

Adjustments, Financial Statements, and the Quality of Earnings 调整分录,财务报告和收益质量

Learning Objectives

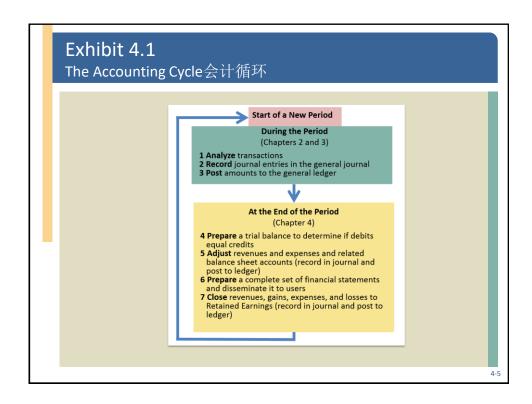
After studying this chapter, you should be able to:

- 4-1 Explain the purpose of adjustments and analyze the adjustments necessary at the end of the period to update revenues and expenses and related balance sheet accounts.
- 4-2 Present an income statement with earnings per share, a statement of stockholders' equity, and a balance sheet.
- 4-3 Compute and interpret the total asset turnover ratio.
- 4-4 Explain the closing process.



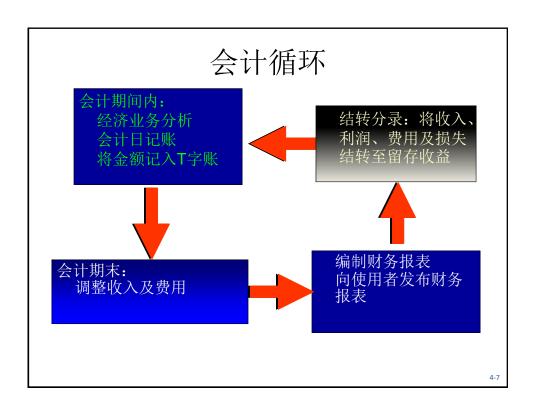
Learning Objective 4-1

4-1 Explain the purpose of adjustments and analyze the adjustments necessary at the end of the period to update revenues and expenses and related balance sheet accounts.



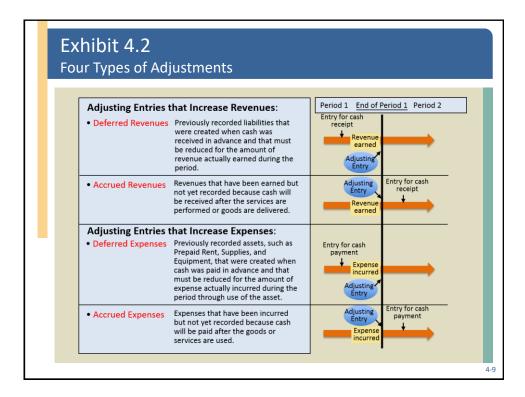
Steps in the accounting cycle会计循环步骤

- 1. 分析交易和原始凭证
- 2. 记录:编制日记账会计分录.
- 3. 过帐: 将会计分录内容抄至相应的账户(T字帐户)
- 4. 编制试算平衡表,确保借方合计等于贷方合计
- **5. 调整**收入费用和相应的资产负债表项目:编制调整分录,并过帐
- 6. 编制会计报表
- **7. 结账**:将收入、利得、费用和损失结转至留存收益账户,编制结帐**分录**、并过帐



The Purpose of Adjustments账项调整目的 内部事项需要调整 Revenues are recorded when earned (the revenue recognition principle). Expenses are recorded when they are incurred to generate revenue (the expense recognition principle). Companies wait until the end Adjusting entries of the accounting period to are required every adjust their accounts because time a company doing so daily or weekly prepares financial would be very costly and timestatements consuming. 调整在期末进行 编表前必须调整

4



Three Steps in the Adjustment Process

Step 1: Ask - 是否有未记录的收入/费用?

• If YES, increase the revenue or expense account in the adjusting entry.

Step 2: Ask - 现金收/支在前还是在后

- If cash was received in the past, a liability account (deferred revenue预收收入) was recorded in the past → Now reduce the liability account and record revenue earned.
- If cash **will be received** in the future → Increase the receivable account to record what is owed by others (creating an **accrued revenue**应计收入).
- If cash was paid in the past, a deferred expense 预付费用account (asset) was created → Now reduce the asset because some or all of the asset has been used.
- If cash will be paid in the future → Increase the payable account to record what is owed by the company (creating an accrued expense应计费用).

Step 3: 计算收入费用

When revenue is earned: DEFERRED REVENUE f cash was received and previously recorded, the adjusting entry is	When expense is incurred: DEFERRED EXPENSE If cash was paid and previously recorded, the adjusting entry is
Jnearned Revenue (-L) xx Revenue (+R, +SE) xx	Expense (+E, -SE) xx Prepaid Expense (-A) xx
OR ACCRUED REVENUE If cash will be received, the adjusting entry is	OR ACCRUED EXPENSE If cash will be paid, the adjusting entry is
Receivable (+A) xx Revenue (+R, +SE) xx	Expense (+E, –SE) xx Payable (+L) xx

Unadjusted Trial Ba	lance				
,					
CHIPOTLE MEXICAN GRILL-	-UNADJU	STED	Income taxes payable		C
TRIAL BALANCE Based on	hynotheti	cal	Wages payable		C
transactions for the first of			Utilities payable		5
	-	ueu	Notes payable (current)		0
March 31, 20			Notes payable (noncurrent)		80
(in millions)	Debit	Credit	Other liabilities		279
Cash	731		Common stock		2
Short-term investments	333		Additional paid-in capital		1,604
Accounts receivable	54		Treasury stock	2,334	
Supplies	390		Retained earnings		2,391
Prepaid expenses	131		Restaurant sales revenue		1,228
Land	21		Interest revenue		1
Buildings (at cost)	1,711		Wages expense	177	
Equipment (at cost)	628		Utilities expense	75	
Accumulated depreciation (used cost)		979	Repairs expense	19	
Long-term investments	35		Training expense	41	
Intangible assets	81		Loss on disposal of assets	4	
Intangible assets		88	Income tax expense	0	
Unearned revenue		106	Total	6,765	6,765
Dividends payable		2			

Deferred (Unearned) Revenues (1 of 2)

AJE 1 Unearned Revenue: Chipotle received cash last period from customers purchasing gift cards. During the first quarter of 2018, customers redeemed a portion of the gift cards for \$52 in food service.

Step 1

Was revenue earned that is not yet recorded? Yes. When customers redeemed their gift cards during the quarter, Chipotle provided food service. Therefore, Chipotle earned \$52 in Restaurant Sales Revenue that is not yet recorded by the end of the quarter. Record an increase in the revenue account.

Step 2

Was the related cash received in the past or will it be received in the future? In the past. The Unearned Revenue account was created when cash was received in the past. At the end of the quarter, there is a \$106 balance in the account. However, it is too large because a portion of it has been earned. Therefore, record a decrease in the unearned revenue account for the amount earned.

Step 3

Compute the amount of revenue earned. The amount of the revenue that was earned is \$52. Record \$52 in the adjusting journal entry.

	Debit	Credit
(AJE 1) Unearned Revenue (-L)	52	
Restaurant sales revenue (+R, +SE)		52

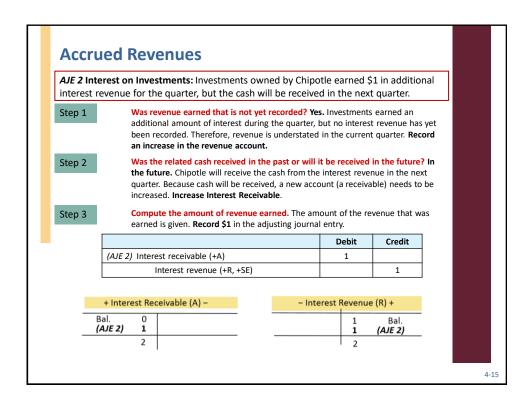
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Deferred (Unearned) Revenues (2 of 2)

AJE 1 Unearned Revenue – AJE 1 had the following effect on the general ledger account balances.

– Unearned Revenue (L) +					
	106	Bal.			
(AJE 1) 52					
	54				

– Restaurant Sales Revenue (R) +				
	1,228	Bal.		
	52	(AJE 1)		



Deferred Expenses (1 of 7)

Many assets are used over time to generate revenues, such as:

- Supplies
- · Buildings and equipment
- Prepaid expenses (e.g., prepaid rent, prepaid insurance, prepaid advertising)

These assets are **deferred expenses** (that is, recording the expenses for using these assets is deferred to the future). At the end of every period, an adjustment must be made to record the amount of the asset that was used during the period.

Deferred Expenses (2 of 7)

AJE 3 Supplies: At the end of the quarter, Chipotle counted \$24 in supplies on hand, but the Supplies account indicated an unadjusted balance of \$390.

Step 1

Was expense incurred that is not yet recorded? Yes. Supplies were used during the quarter to generate revenue, but no entry has been made to record the amount used. Expenses are understated. Record an increase in the Supplies Expense account.

Step 2

Was the related cash paid in the past or will it be paid in the future? In the past. Chipotle purchased supplies during the quarter and recorded the acquisition in the Supplies account. Some of these supplies have been used during the quarter, but no entry has been made yet to reduce the account. Assets are overstated. Record a decrease in the Supplies account.

Step 3

Compute the amount of expense incurred. The easiest way to determine the dollar amount of supplies used is to add the dollar amount of supplies available at the beginning of the period plus any purchases made during the period, and then subtract the dollar amount of supplies remaining on hand at the end of the period.

Computation of Supplies Expense	
Beginning balance—Supplies	\$ 20
+ Purchases during quarter	370
Unadjusted balance at end of quarter	390
- Amount on hand at end of quarter	(24)
Supplies used during quarter	\$ 366

. . . -

Deferred Expenses (3 of 7)

AJE 3 Supplies

The balance of Supplies on the unadjusted trial balance is \$390, which includes the beginning balance for the quarter (\$20) and the purchases during the quarter (\$370). With \$24 remaining on hand, the amount of supplies used during the period is \$366. **Record \$366 in the adjusting entry.**

	Debit	Credit
(AJE 3) Supplies Expense (+E, -SE)	366	
Supplies (-A)		366

	+ Supp	lies (A)	-			- Supplie	es Expense (E) –
Bal.	390				Bal.	0	
		366	(AJE 3)	_	(AJE 3)	366	
	24					366	

Deferred Expenses (4 of 7)

AJE 4 Prepaid Expenses: The Prepaid Expenses unadjusted account balance of \$131 includes (1) \$72 paid at the beginning of the quarter for rental of facilities at \$18 per month, (2) \$48 for insurance coverage for six months beginning January 1, 2018, and (3) \$4 for advertising during the quarter.

Was expense incurred that is not yet recorded? Yes. 部分租金/保 险/广告费已经为当期创收而有所耗费,但未作记录,费用被低估. Record an increase in the Rent Expense, Insurance Expense, and Advertising Expense.

Step 2 Was the related cash paid in the past or will it be paid in the future? 期初已经支付的租金/保险/广告费,这类预付费用在当期已经有 所耗费,但未作记录,预付费用被高估. Record a decrease in Prepaid Expenses.

Step 3 Compute the amount of expense incurred. For the Chipotle example, the computations are as follows:

- Rent: \$18 per month \times 3 months in the quarter = \$54 used
- Insurance: \$48 prepaid × (3 months in the quarter / 6 months of coverage) = \$24 used
- Advertising: All during the quarter = \$4 used

Record a total of \$82

Deferred Expenses (5 of 7)

AJE 4 Prepaid Expenses

(AJE 4)

	Debit	Credit
(AJE 4) Rent expense (+E, -SE)	54	
Insurance expense (+E, −SE)	24	
Advertising expense (+E, -SE)	4	
Prepaid expenses (–A)		82

+ Prepaid Expenses (A) —				
Bal.	131			
		82	(AJE 4)	
	49			
	+ Insurance B	Expense	(E) —	
Bal.	0			

Bal.	0	
(AJE 4)	54	
	54	
+ Ac	dvertising	Expense (E) —
Bal.	0	
(AJE 4)	4	
	4	

+ Rent Expense (E) -

Deferred Expenses (6 of 7)

AJE 5 Buildings and Equipment

Building and equipment, but not land, depreciate over time as they are used. Depreciation is the allocation of the cost of buildings and equipment over their estimated useful lives to the organization.

Was expense incurred that is not yet recorded? Yes. 使用固定资产,但是没有确认相应的费用. Record an increase in the expense account, Depreciation Expense.

Was the related cash paid in the past or will it be paid in the future? In the past.几年前购买的固定资产,在当期有所耗费,但未作记录. Reduce the net book value by recording an increase in the contraaccount Accumulated Depreciation.

Step 3 Compute the amount of expense incurred. The property and equipment have been used to generate revenue for the quarter. Thus, we need to calculate one quarter of Depreciation Expense:

Depreciation expense for the quarter = \$124 for the year (given) \times 1/4 of the year

= \$31

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Deferred Expenses (7 of 7)

AJE 5 Depreciation on Buildings and Equipment: The amount of annual deprecation expense was given in the problem as \$124. The quarterly deprecation expense is \$31.

	Debit	Credit
(AJE 5) Depreciation expense (+E, –SE)	31	
Accumulated depreciation (+XA, -A)		31

+ Depreciation Expense (E) —						
Bal.	0					
(AJE 5)	31					
	31					

Accumulated Depreciation (XA) +						
	979 31	Bal. <i>(AJE 5)</i>				
	1,010					

Accrued Expenses (1 of 5)

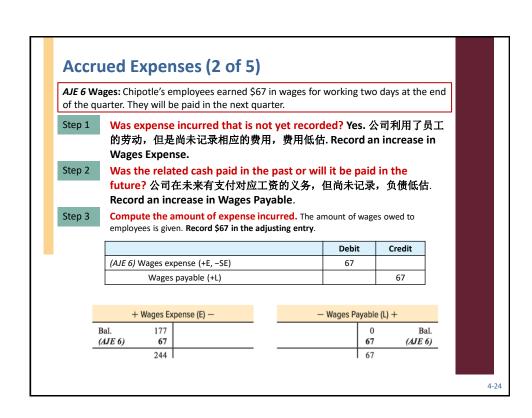
Many expenses are incurred in the current period without being paid until the next period.

Common examples include:

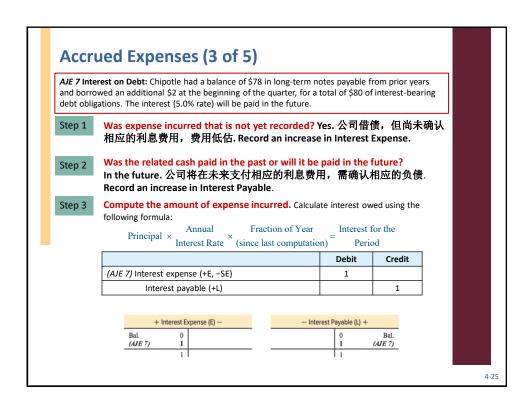
- Wages Expense for the wages owed to employees who worked during the period
- Utilities Expense for the water, gas, and electricity used during the period
- Interest Expense incurred on debt owed during the period

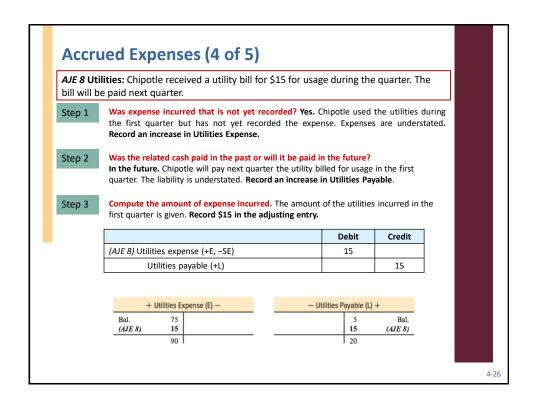
These **accrued expenses** accumulate (accrue) over time but are not recognized as expenses until the end of the period in an adjusting entry.

4-23



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AJE 9 Income Taxes: The final adjusting entry is to record the accrual of \$101 of income taxes that will be paid in the next quarter.

Step 1

Was expense incurred that is not yet recorded? Yes. Chipotle incurred taxes on its quarterly income. Until an adjusting entry is recorded at the end of the period based on all adjusted revenues, gains, expenses, and losses, total expenses on the income statement are understated. Record an increase in Income Tax Expense.

Step 2

Was the related cash paid in the past or will it be paid in the future? In the future. Income taxes from the first quarter are due by the end of the second quarter. So the liabilities on the balance sheet must be increased. Record an increase in Income Taxes Payable.

Step 3

Compute the amount of expense incurred. Income taxes are computed on pretax income after all other adjustments. Record \$101 in the adjusting entry.

	Debit	Credit
(AJE 9) Income tax expense (+E, –SE)	101	
Income taxes payable (+L)		101

+ In	come Tax	Expense (E) —
Bal. (AJE 9)	0 101	
(101	

— Income Taxes Payable (L) +				
	0 101	Bal. (AJE 9)		
	101			

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Exercise 4-1

Alexa Company completed its first year of operations on December 31. All of the year's entries have been recorded except for the following:

- a. At year-end, employees earned wages of \$6,400, which will be paid on the next payroll date in January of next year
- At year-end, the company had earned interest revenue of \$3,900. The cash will be collected March 1
 of the next year.

Identify whether each transaction results in adjusting a deferred or an accrued account. Using the process illustrated in the chapter, prepare the required adjusting entry for transactions (a) and (b). Include appropriate dates and write a brief explanation of each entry.

a. Wages expense

6,400

Wages payable

6,400

To accrue wages earned by employees at year-end, will be paid January of the next year

b. Interest receivable

3,900

Interest revenue

3 900

To accrue interest revenue earned at year-end, will be collected March 1 of next year

Exercise 4-2

Van Detailing Services, Inc., completed its first year of operations on June 30. All of the year's entries have been recorded except for the following:

- On January 1 of the current year, the company borrowed \$50,000 at a 8 percent interest rate to be repaid in five years.
- On the last day of the current year, the company received a \$120 utility bill for utilities used in June. The bill will be paid in July of next year.

Required:

- 1. What is the annual reporting period for this company?
- 2. Identify whether each transaction results in adjusting a deferred or an accrued account. Using the process illustrated in the chapter, prepare the required adjusting entry for transactions (a) and (b). Include appropriate dates and write a brief explanation of each entry.
- 3. Why are these adjustments made?

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Requirement 1

The annual reporting period for this company is July 1 through June 30.

Requirement 2

a. On January 1 of the current year, the company borrowed \$50,000 at a 8
percent interest rate to be repaid in five years.

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Requirement 2

b. On the last day of the current year, the company received a \$120 utility bill for utilities used in June. The bill will be paid in July of next year.

Accrued Expense

Adjusting entry:

Requirement 3

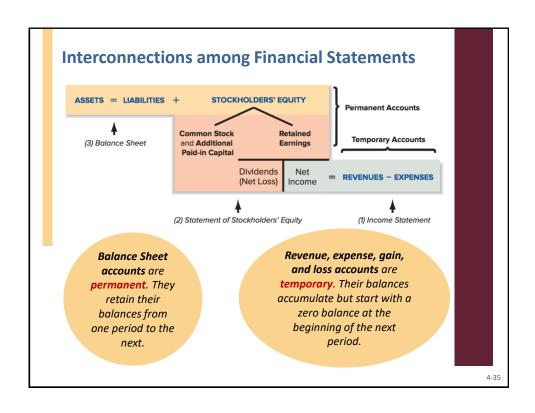
Adjusting entries are necessary at the end of the accounting period to ensure that:

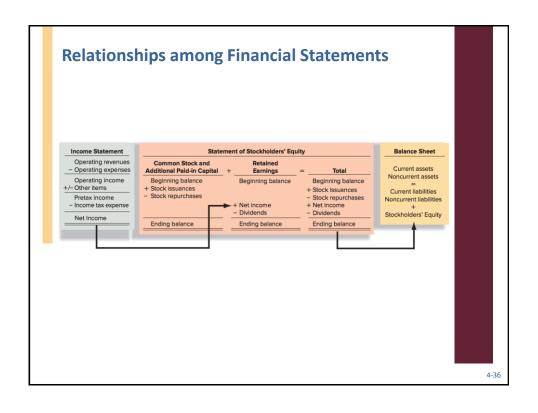
- All revenues earned and expenses incurred are recorded
- The related assets and liabilities are measured properly

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Learning Objective 4-2

4-2 Present an income statement with earnings per share, a statement of stockholders' equity, and a balance sheet.





al Balance Spread		-						
	Tr For the firs	OTLE ME ial Balance st quarter er (in millions	Spreadsher	et h 31, 2018		: Cash did i e cash is ne		
	Unadiu			Adjustments		Adjus	ted	
	Debit	Credit	- '	Debit	Credit	Debit	Credit	
Cash	731					731		
Short-term investments	333					333		
Accounts receivable	54					54		
Interest receivable	0		AJE 2	1	245	1		
Supplies	390		AJE 3		366	24		
Prepaid expenses Land	131		AJE 4		82	49 21		
Buildings	1,711					1,711		
Equipment	628					628		
Accumulated depreciation		979	AJE 5		31		1,010	
Long-term investments	35					35		
Intangible assets	81					81		
Accounts payable		88					88	
Unearned revenue		106	AJE I	52			54	
Dividends payable		2					2	
Income taxes payable Wages payable		0	AJE 9		101 67		101	
Utilities payable	_	5	AJE 8		15		20	
Interest payable		0	AJE 7		13		1	
Notes payable (current)		0	NeL /				0	
Notes payable (noncurrent)		80					80	
Other liabilities		279					279	
Common stock		2					2	
Additional paid-in capital		1,604					1,604	
Treasury stock	2,334					2,334		
Retained earnings		2,391					2,391	
Restaurant sales revenue Interest revenue		1,228	AJE 1 AJE 2		52		1,280	
Supplies expense	0	- 1	AJE 2	366	- 1	366	2	
Wages expense	177		AJE 6	67		244		
Utilities expense	75		AJE 8	15		90		
Rent expense	0		AJE 4	54		54		
Insurance expense	0		AJE 4	24		24		
Advertising expense	0		AJE 4	4		4		
Repairs expense	19					19		
Training expense	41		AJE 5	21		41 31		
Depreciation expense Loss on disposal of assets	4		AJE 5	31		31		
Loss on disposal of assets Interest expense	0		AJE 7	1		1		
Income tax expense	0		AJE 9	101		101		
	6,765	6,765		716	716	6,981	6,981	

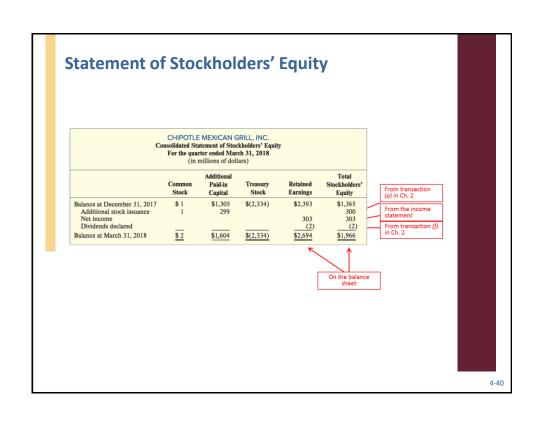
CHIPOTLE MEXICAN GRIL Consolidated Statement of For the quarter ended March 31, 2018 (in millions	Income*
Restaurant sales revenue	<u>\$ 1,280</u>
Restaurant operating expenses:	
Supplies expense	366
Wages expense	244
Rent expense	54
Insurance expense	24
Utilities expense	90
Repairs expense	19
General and administrative expenses:	
Training expense	41
Advertising expense	4
Depreciation expense	31
Loss on disposal of assets	4
Total operating expenses	<u>877</u>
ncome from operations	403
Other items:	
Interest revenue	2
Interest expense	(1)
income before income taxes	404
ncome tax expense	101
Net income	\$ 303
arnings per share (for the quarter)	<u>\$ 2.02</u>

Earnings per Share

You will note that the earnings per share (EPS) ratio is reported on the income statement. It is widely used in evaluating the operating performance and profitability of a company.

Earnings
per
Share = Net income
Average number of shares of common stock outstanding during the period

The actual computation of EPS is quite complex. In this text, we simplify the earnings per share computation.



	POTLE MEXICAN GRILL, INC. ets* (in millions of dollars, except	per share data)
	March 31, 2018	December 31, 2017
ASSETS		
Current Assets:		
Cash	\$ 731	\$ 186
Short-term investments	333	324
Accounts receivable	54	49
Interest receivable	1	=
Supplies	24	20
Prepaid expenses	<u>49</u>	<u>51</u>
Total current assets	1,192	630
Property and equipment:		
Land	21	13
Buildings	1,711	1,677
Equipment	628	627
Total cost	2,360	2,317
Accumulated depreciation	(1,010)	<u>(979)</u>
Net property and equipment	1,350	1,338
Long-term investments	35	-
Intangible assets	81	78
Total assets	<u>\$ 2,658</u>	<u>\$ 2,046</u>

CHIPOTLE MEXICAN GRILL, INC. Consolidated Balance Sheets* (in millions of dollars, except per share data)						
Consolidated Balance Sheets (i	March 31, 2018	December 31, 2017				
LIABILITIES AND STOCKHOLDERS' EQUIT	•	December 31, 2017				
Current Liabilities:	•					
Accounts payable	\$ 88	\$ 82				
Unearned revenue	54	64				
Dividends payable	2	_				
Accrued expenses payable:						
Wages payable	67	83				
Utilities payable	20	77				
Interest payable	<u>1</u>	_				
Income taxes payable	<u>101</u>	<u>18</u>				
Total current liabilities	333	324				
Notes payable	80	78				
Other liabilities	<u>279</u>	<u>279</u>				
Total liabilities	692	681				
Stockholders' Equity:						
Common stock (\$0.01 par value per sh	nare)					
Additional paid-in capital	1,604	1,305				
Treasury stock	(2,334)	(2,334)				
Retained earnings	<u>2,694</u>	<u>2,393</u>				
Total stockholders' equity	<u>1,966</u>	<u>1,365</u>				
Total liabilities and stockholders' equity	<u>\$ 2,658</u>	<u>\$ 2,046</u>				

Cash Flows from Operations, Net Income, and the Quality of Earnings

FOCUS ON CASH FLOWS

Analysts look for unusual deferrals and accruals when they attempt to predict future periods' earnings.

Warning sign:

What if there is a significant difference between cash flow from operations and net income?

This could signal the existence of unusual

- 1) Deferrals
- 2) Allocations
- 3) Valuations

Some users consider earnings of higher quality when the ratio of cash flows from operations divided by net income is greater.

Exercise 4-3

Nanking Company is making adjusting entries for the year ended December 31 of the current year. In developing information for the adjusting entries, the accountant learned the following:

- a. A two-year insurance premium of \$4,560 was paid on October 1 of the current year for coverage beginning on that date. The bookkeeper debited the full amount to Prepaid Insurance on October 1.
- b. At December 31 of the current year, the following data relating to Shipping Supplies were obtained from the records and supporting documents.

Shipping supplies on hand, January 1 of the current year \$16,000

Purchases of shipping supplies during the current year 62,500

Shipping supplies on hand, counted on December 31 of the current year

18,000

Required:

- 1. Using the process illustrated in the chapter, record the adjusting entry for insurance at December 31 of the current year.
- 2. Using the process illustrated in the chapter, record the adjusting entry for supplies at December 31 of the current year, assuming that the shipping supplies purchased during the current year were debited in full to the account Shipping Supplies.
- 3. What amount should be reported on the current year's income statement for Insurance Expense? For Shipping Supplies Expense?
- 4. What amount should be reported on the current year's balance sheet for Prepaid Insurance? For Shipping Supplies?

Requirement 1

a. A two-year insurance premium of \$4,560 was paid on October 1 of the current year for coverage beginning on that date. The bookkeeper debited the full amount to Prepaid Insurance on October 1.

Deferred Expense

Computation:

 $$4,560 \times 3 \div 24 = 570 used

Adjusting entry:

Insurance Expense (+E, -SE)

Debit Credit

570

570

Prepaid Insurance (-A)

To record insurance expense at year-end.

Requirement 1

b. At December 31 of the current year, the following data relating to Shipping Supplies were obtained from the records and supporting documents.

Shipping supplies on hand, January 1 of the current year \$16,000 Purchases of shipping supplies during the current year 62,500

Shipping supplies on hand, counted on December 31 of the current year 18,000

Deferred Expense

Computation:

Beginning balance Supplies purchased Supplies on hand at end

Supplies used

\$16,000 62,500 (18,000)\$60,500

Adjusting entry:

Shipping Supplies Expense (+E, -SE)

Debit Credit

60,500

Shipping Supplies (-A)

60,500

To record shipping expense at year-end.

Requirements 2 and 3

Shipping Supplies

Requirements 2 and 5	
Insurance Expense	Shipping Supplies Expense
Beg. 0	Beg. 0
AJE 570	AJE 60,500
570	60,500
Prepaid Insurance	Shipping Supplies
1/10 4,560	Beg. 16,000
AJE 570	Pur. 62,500 AJE 60,500
3,990	<u>18,000</u>
Income Statement:	
Insurance Expense	\$ 570
Shipping Supplies Expense	60,500
Balance Sheet:	
Prepaid Insurance	\$ 3,990

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Exercise 4-4

18,000

Nichols' Store is completing the accounting process for the year just ended, December 31, Year 1. The transactions during Year 1 have been journalized and posted. The following data with respect to adjusting entries are available:

- a. Wages earned by employees during December Year 1, unpaid and unrecorded at December 31, Year 1, amounted to \$540. The last payroll was December 28; the next payroll will be January 6, Year 2 (the next year).
- Office supplies on hand at January 1, Year 1, totaled \$90. Office supplies purchased and debited to Office Supplies during the year amounted to \$100. The year-end count showed \$55 of supplies on hand.
- c. One fourth of the basement space is rented to McLaughlin's Specialty Shop for \$112 per month, payable monthly. On December 31, Year 1, the rent for November and December, Year 1 had not been collected or recorded. Collection is expected January 10, Year 2.
- d. The store used delivery equipment that cost \$12,100; \$2,420 was the estimated depreciation for Year 1.
- e. On July 1, Year 1, a two year insurance premium amounting to \$480 was paid in cash and debited in full to Prepaid Insurance. Coverage began on July 1, Year 1.
- f. The remaining basement of the store is rented for \$320 per month to another merchant, T. Boltman, Inc. Boltman sells compatible, but not competitive, merchandise. On November 1, Year 1, the store collected six months' rent in the amount of \$1,920 in advance from Boltman; it was credited in full to Unearned Rent Revenue when collected.

g. Nichols' Store operates a repair shop to meet its own needs. The shop also does repairs for T. Boltman. At the end of December 31, Year 1, Boltman had not paid \$160 for completed repairs. This amount has not yet been recorded as Repair Shop Revenue. Collection is expected during January, Year 2.

Required:

For each of the transactions listed above, indicate the amount and the direction of effects of the adjusting entry on the elements of the balance sheet and income statement. Using the following format, indicate + for increase, – for decrease, and NE for no effect.

		BALA	NCE SHEET	INCOME STATEMENT			
Transaction	Assets	Liabilities	Stockholders' Equity	Revenues	Expenses	Net Income	
a.							
b.							
c.							
(etc.)							

4-49

 a. Wages earned by employees during December Year 1, unpaid and unrecorded at December 31, Year 1, amounted to \$540. The last payroll was December 28; the next payroll will be January 6, Year 2 (the next year).

		BALAN	CE SHEET	INCOME STATEMENT				
Transaction	Assets	Liabilities	Stockholders' Equity	Revenues	Expenses	Net Income		
a	NF	+540	-540	NF	+540	-540		

 Office supplies on hand at January 1, Year 1, totaled \$90. Office supplies purchased and debited to Office Supplies during the year amounted to \$100. The year-end count showed \$55 of supplies on hand.

	BALANCE SHEET			INCOME STATEMENT		
Transaction	Assets	Liabilities	Stockholders' Equity	Revenues	Expenses	Net Income
a.	NE	+540	-540	NE	+540	-540
b.	-135	NE	-135	NE	+135	-135

. - -

c. One fourth of the basement space is rented to McLaughlin's Specialty Shop for \$112 per month, payable monthly. On December 31, Year 1, the rent for November and December, Year 1 had not been collected or recorded. Collection is expected January 10, Year 2.

	BALANCE SHEET			INCOME STATEMENT		
Transaction	Assets	Liabilities	Stockholders' Equity	Revenues	Expenses	Net Income
a.	NE	+540	-540	NE	+540	-540
b.	-135	NE	-135	NE	+135	-135
c.	+224	NE	+224	+224	NE	+224

d. The store used delivery equipment that cost \$12,100; \$2,420 was the estimated depreciation for Year 1.

	BALANCE SHEET			INCOME STATEMENT		
Transaction	Assets Liabilities Stockholders' Equity Re		Revenues	Expenses	Net Income	
a.	NE	+540	-540	NE	+540	-540
b.	-135	NE	-135	NE	+135	-135
C.	+224	NE	+224	+224	NE	+224
d.	-2,420	NE	-2,420	NE	+2,420	-2,420

4-53

e. On July 1, Year 1, a two year insurance premium amounting to \$480 was paid in cash and debited in full to Prepaid Insurance. Coverage began on July 1, Year 1.

	BALANCE SHEET			INC	MENT	
Transaction	Assets Liabilities Stockholders' Equity		Revenues	Expenses	Net Income	
a.	NE	+540	-540	NE	+540	-540
b.	-135	NE	-135	NE	+135	-135
C.	+224	NE	+224	+224	NE	+224
d.	-2.420	NE	-2.420	NE	+2,420	-2,420
e.	-120	NE	-120	NE	+120	-120

f. The remaining basement of the store is rented for \$320 per month to another merchant, T. Boltman, Inc. Boltman sells compatible, but not competitive, merchandise. On November 1, Year 1, the store collected six months' rent in the amount of \$1,920 in advance from Boltman; it was credited in full to Unearned Rent Revenue when collected.

	BALANCE SHEET			INCOME STATEMENT		
Transaction	Assets	Liabilities	Stockholders' Equity	Revenues	Expenses	Net Income
a.	NE	+540	-540	NE	+540	-540
b.	-135	NE	-135	NE	+135	-135
C.	+224	NE	+224	+224	NE	+224
d.	-2,420	NE	-2,420	NE	+2,420	-2,420
e.	-120	NE	-120	NE	+120	-120
f.	NE	-640	+640	+640	NE	+640

4-55

g. Nichols' Store operates a repair shop to meet its own needs. The shop also does repairs for T. Boltman. At the end of December 31, Year 1, Boltman had not paid \$160 for completed repairs. This amount has not yet been recorded as Repair Shop Revenue. Collection is expected during January, Year 2.

	BALANCE SHEET			INC	OME STATE	MENT
Transaction	Assets	Liabilities	Stockholders' Equity	Revenues	Expenses	Net Income
a.	NE	+540	-540	NE	+540	-540
b.	-135	NE	-135	NE	+135	-135
C.	+224	NE	+224	+224	NE	+224
d.	-2,420	NE	-2,420	NE	+2,420	-2,420
e.	-120	NE	-120	NE	+120	-120
f.	NE	-640	+640	+640	NE NE	+640
g.	+160	NE NE	+160	+160	NE NE	+160

Exercise 4-5

Janson Company prepared the following trial balance at the end of its first year of operations ending December 31. To simplify the case, the amounts given are in thousands of dollars. The "Ref." column is for the reference letter of the adjusting entry effect.

	UNADJUSTED			ADJUSTMENTS			ADJUSTED	
Account Titles	Debit	Credit	Ref.	Debit	Credit	Debit	Credit	
Cash	40							
Accounts receivable	26							
Prepaid insurance	16							
Machinery	170							
Accumulated depreciation								
Accounts payable		22						
Wages payable								
Income taxes payable								
Common stock (8,000 shares)		8						
Additional paid-in capital		134						
Retained earnings	12							
Revenues (not detailed)		164						
Expenses (not detailed)	64							
Totals	328	328						

Other data not yet recorded at December 31 include

- a. Insurance expired during the current year, \$12.
- Wages payable, \$15.
- Depreciation expense for the current year, \$22.
- d. Income tax expense, \$10.

Required:

- Prepare the adjusting entries for the current year.
 Complete the trial balance Adjustments and Adjusted columns.

- Other data not yet recorded at December 31 include a. Insurance expired during the current year, \$12.
- Wages payable, \$15. b.
- Depreciation expense for the current year, \$22.
- d. Income tax expense, \$10.

Required:

1. Prepare the adjusting entries for the current year.

a.	Insurance expense	12	
	Prepaid insurance		12
b.	Wages expense	15	
	Wages payable		15
c.	Depreciation expense	22	
	Accumulated depreciation		22
d.	Income tax expense	10	
	Income taxes payable		10

Other data not yet recorded at December 31 include

- a. Insurance expired during the current year, \$12.
- b. Wages payable, \$15.
- c. Depreciation expense for the current year, \$22.
- d. Income tax expense, \$10.

Required:

2. Complete the trial balance Adjustments and Adjusted columns.

	UNADJUSTED		ADJUSTMENTS			ADJUSTED	
Account Titles	Debit	Credit	Ref.	Debit	Credit	Debit	Credit
Cash	40					40	
Accounts receivable	26					26	
Prepaid insurance	16		a.		12	4	
Machinery	170					170	
Accumulated depreciation			C.		22		22
Accounts payable		22					22
Wages payable			b.		15		15
Income taxes payable			d.		10		10
Common stock (8,000 shares)		8					8
Additional paid-in capital		134					134
Retained earnings	12					12	
Revenues (not detailed)		164					164
Expenses (not detailed)	64			259 9		123	
Totals	328	328		_59_	<u>59</u>	<u>375</u>	375

4-59

Royal Company had the following adjusted balances (in thousands) at the end of its first year of operations ending December 31, Year 1.

	ADJUSTED				
Account Titles	Debit	Credit			
Cash	105				
Accounts receivable	27				
Prepaid insurance	6				
Machinery	240				
Accumulated depreciation		24			
Accounts payable		27			
Wages payable		15			
Income taxes payable		27			
Common stock (4,000 shares)		40			
Additional paid-in capital		179			
Retained earnings	12				
Revenues (not detailed)		252			
Expenses (not detailed)	147				
Income tax expense	27				
Totals	564	_564_			

Required:

Using the adjusted balances above, prepare an income statement, statement of stockholders' equity, and balance sheet for Year 1.

Learning Objective 4-3

4-3 Compute and interpret the total asset turnover ratio.

4-61

Total Asset Turnover Ratio总资产周转率

KEY RATIO ANALYSIS

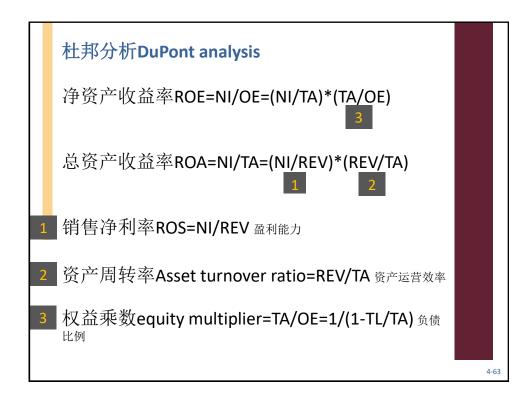
How efficient is management in using its resources to generate sales?

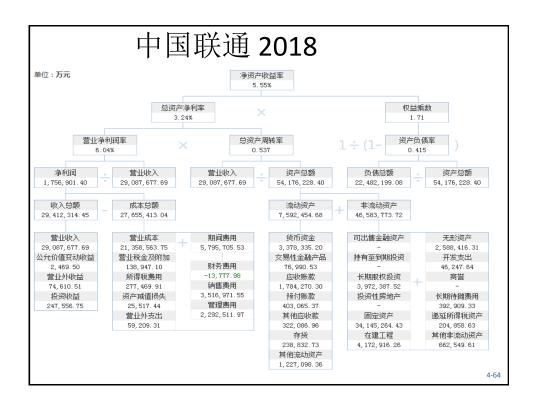
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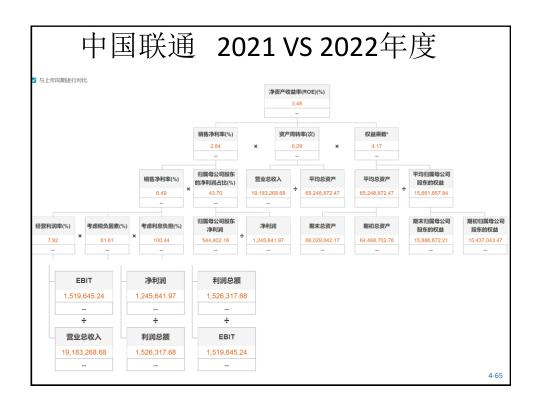
The higher the asset turnover is, the more efficient assets are being utilized to generate revenues.

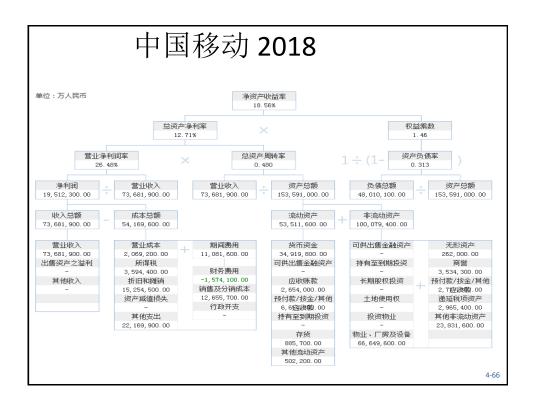
 $\frac{\text{Total Asset}}{\text{Turnover Ratio}} = \frac{\text{Net Sales (or Operating Revenues)}}{\text{Average Total Assets*}}$

*An average is computed as: (Beginning balance + Ending balance) ÷ 2

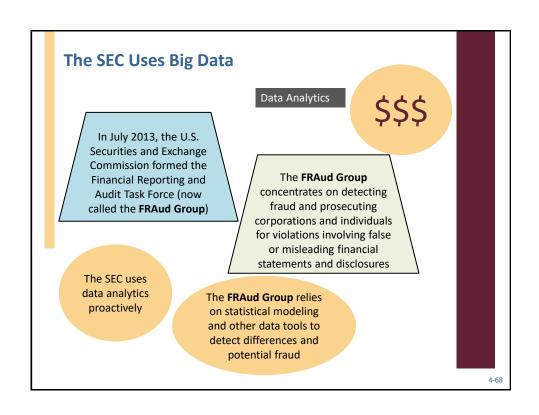












Learning Objective 4-4

4-4 Explain the closing process.

4-69

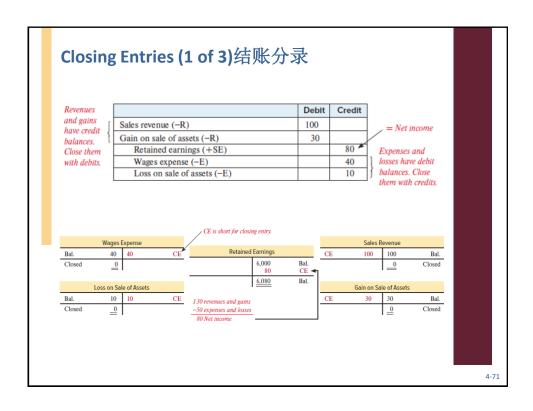
Closing the Books结账

Even though the balance sheet account balances carry forward from period to period, the income statement account balances *DO NOT* carry forward.

Closing entries:

- 1. Transfer net income (or loss) to Retained Earnings.将利润转入留存收益
- 2. Establish a zero balance in each of the *temporary* accounts to start the accumulation in the next accounting period.将临时性账户清零,为下一期记录做准备

Reminder: **Temporary** accounts are revenue, expense, gain, and loss accounts



Closing Entries (2 of 3)

	Debit	Credit
(CE) Restaurant sales revenue (-R)	1,280	
Interest revenue (-R)	2	
Retained earnings (+SE)		303
Supplies expense (–E)		366
Wages expense (-E)		244
Rent expense (-E)		54
Insurance expense (-E)		24
Utilities expense (-E)		90
Repairs expense (-E)		19
Training expense (-E)		41
Advertising expense (-E)		4
Depreciation expense (–E)		31
Loss on disposal of assets (–E)		4
Interest expense (-E)		1
Income tax expense (-E)		101

Closing Entries (3 of 3) 1,280 Adj. Bal. Adj. Bal. 2,391 Adj. Bal. 303 (CE) (CE) 1.280 0 End. Bal. End. Bal. 2,694 End. Bal. + Supplies Expense -+ Wages Expense -+ Rent Expense -Adj. Bal. 366 Adj. Bal. 244 Adj. Bal. End. Bal. 0 End. Bal. End. Bal. Adj. Bal. 24 Adj. Bal. 90 Adj. Bal. 19 (CE) End. Bal. 0 End. Bal. 0 End. Bal. + Training Expense + Advertising Expense -+ Depreciation Expense -Adj. Bal. Adj. Bal. Adj. Bal. (CE) (CE) End. Bal. End. Bal. End. Bal. + Loss on Disposal of Assets -+ Interest Expense -+ Income Tax Expense -Adj. Bal. Adj. Bal. Adj. Bal. 101 (CE) 101 (CE) (CE) End. Bal. End. Bal. End. Bal. 0

Post-Closing Trial Balance结账后试算平衡表

After the closing process is complete, all income statement accounts have a zero balance.

The ending balance in Retained Earnings now is up-to-date (matches the amount on the balance sheet) and is carried forward as the beginning balance for the next period.

As an additional step of the accounting information processing cycle, a post-closing trial balance should be prepared as a check that debits still equal credits and that all temporary accounts have been closed.

收入/费用与留存收益的记录!!!

- 1. 过程:平时(during the period)发生收入/费用时记录相应的收入/费用账户,不记录留存收益账户;结果:到期末(at the end of the period)通过结账转入留存收益
- 2. 平时宣告分红,记录留存收益减少。留存收益也基本只在分红时发生变化,其他事项(发生收入费用)不能直接记录留存收益
- 3. 前2章尚未学习收入费用的确认和记录,发生相关交易时会计等式直接记作留存收益的变化,这个操作反应的是最终影响,不是过程,希望不要误导后续的分录编制

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HW4

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