Investing and Financing Decisions and the Accounting System

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Reading Ch.2 2021/1/27

Tronsactions

· cetain events that have economic impact on the business only recorded as part of the accounting process.



External Events
exchanges of assets, goods, or
services by one party for assets,
services or powises to pay (lookiten)
from one or male parties.



Accounts

. A standard format that againzations use to accumulate the dollar effect of transactions on each financial statement item.

· Each company establishes a "chart of accounts" (a list of all account titles and unique numbes)



· Some important events that have future economic impact are not reflected in the financial statements (signing a contact is only exchange of promises) = needs to be disclosed in notes to the financial statements

Transaction Analysis

· process of studying a transaction to determine its economic impact on the entity in terms of the accounting equation (fundamental accounting model)

Assets (A) = Liabilities (L) + Stockholder's equity (SE)

- 1 Dual Effects Every transaction has at least two effects on the basic accounting equation
 - business entity both receives something and gives up something in return.
- . The accounting balance must remain in balance after each transaction





EXHIBIT 2.4 The Accounting Cycle

During the Period

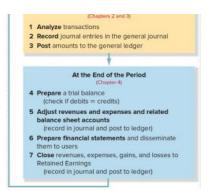
(Chapters 2 and 3)

1 Analyze transactions
2 Record journal entries in the general journal
3 Post amounts to the general ledger

The Accounting Cycle

For most organizations, recording transaction effects and keeping track of account balances in the manner just presented is **impractical**.

To bondle the moultitude of daily transportions that a business

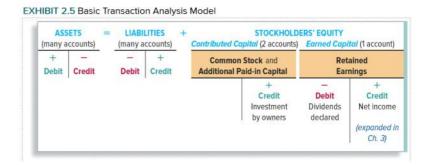


track of account balances in the manner just presented is **impractical**.

To handle the multitude of daily transactions that a business generates, **companies establish accounting systems**, usually computerized, that follow a cycle.

The Direction of Transaction Effects

transaction effects increase and decrease assets, liabilities, and stockholders' equity accounts. To reflect these effects efficiently, we need to structure the transaction analysis model in a manner that shows the **direction** of the effects.



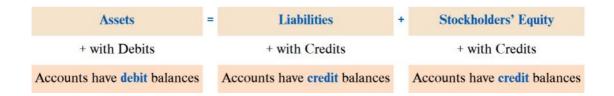
Each account is set up as a "T" with the following structure:

- Increases in asset accounts are on the left because assets are on the left side of the accounting equation (A
 L + SE).
- Increases in liability and stockholders' equity accounts are on the right because they are on the right side of the accounting equation (A = L + SE).

As a consequence:

- **Asset** accounts increase on the left (debit) side and **normally have debit balances**. It would be highly unusual for an asset account, such as Inventory, to have a negative (credit) balance.
- Liability and stockholders' equity accounts increase on the right (credit) side and normally have credit balances.

The accounting equation will remain in balance. **The total dollar value of all debits will equal the total dollar value of all credits** in a transaction. For an extra measure of assurance, add this equality check (Debits = Credits) to the transaction analysis process.



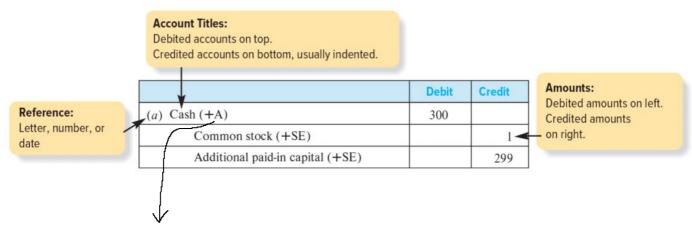
Analytical Tools

The Journal Entry

In a bookkeeping system, transactions are recorded in chronological order in a general journal

After analyzing the business documents (such as purchase invoices, receipts, and cash register tapes) that describe a transaction, the bookkeeper enters the effects on the accounts in the journal using debits and credits.

The <u>journal entry</u>, then, is an <u>accounting method for expressing the effects of a transaction on accounts</u>. It is <u>written in</u> a <u>debits-equal-credits format</u>.



While you are learning to perform transaction analysis, use the symbols A, L, and SE next to each account title in journal entries, as is illustrated in the journal entry for event (a). Specifically identifying an account as an asset (A), a liability (L), or a stockholders' equity account (SE) clarifies the transaction analysis and makes journal entries easier to write.

Note:

It is useful to include a date or some form of reference for each transaction. The debited accounts are written first (on top) with the amounts recorded in the left column. The credited accounts are written below the debits and are usually indented in manual records; the credited amounts are written in the right column.

Total debits (\$300) equal total credits (\$1 + \$299 = \$300). Three accounts are affected by this transaction. Any journal entry that affects more than two accounts is called a **compound entry.**

In a formal bookkeeping system, an additional line is written below the journal entry as an explanation of the transaction.

General	Journal					Page <u>G1</u>
Date	Account Titles an	d Explanatio	on	Ref.	Debit	Credit
	(in milli	ons)				
1-2-18	Cash (+A)			101	300	
	Common stock (+SE)			301		1
	Additional paid-in capital (+SE)			302		299
	(Investment by stockho					
····	······	~~~~	~~~~	····	····	~~~
General	Ledger		C	ASH		101
Date	Explanation	Ref.	Debit	Cre	dit	Balance
						400
	Balance					186
1-2-18	Balance	G1	300			486
1-2-18	^~~~	G1	····•	····		
General	Ledger	·	соммо	N STOC		301
^^^^	Ledger Explanation	G1 Ref.	····•	····		486
General	Ledger	·	соммо	N STOC		301
General Date	Ledger Explanation Balance	Ref.	COMMC Debit	ON STOC	dit 1	301 Balance 1 2
General Date 1-2-18 General	Ledger Explanation Balance	Ref.	COMMC Debit	ON STOC	1 CAPITAL	301 Balance 1 2
General Date	Ledger Explanation Balance Ledger Explanation	Ref.	COMMC Debit	ON STOC	1 CAPITAL	301 Balance 1 2 302 Balance
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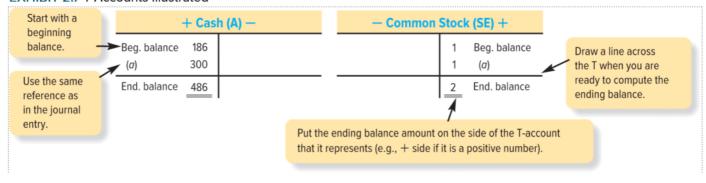
The T Account

Journal entries do not provide the balances in accounts. After the journal entries have been recorded, the bookkeeper **posts** (transfers) the dollar amounts to each account affected by the transaction to determine the new account balances.

As a group, the accounts are called a **general ledger 总分类账簿**. In the manual accounting system used by some small businesses, the ledger is often a three-ring binder with a separate page for each account. In a computerized system, accounts are stored on a disk.

One very useful tool for summarizing the transaction effects and determining the balances for individual accounts is a <u>T-account</u>, a simplified representation of a ledger account.

EXHIBIT 2.7 T-Accounts Illustrated



Notice the following:

- For Cash, which is classified as an asset, increases are shown on the left and decreases appear on the right side of the T-account. For Common Stock, however, increases are shown on the right and decreases on the left because Common Stock is a stockholders' equity account.
- Every T-account starts with a beginning balance.
- It is important to include the reference to the journal entry next to the debit or credit in each T-account. In our illustration, it is (a). For companies, it would be a date. This cross-referencing allows the transactions to be traced between the journal entries and T-accounts.
- When all of the transactions have been posted to a T-account, a horizontal line is drawn across it, similar to the line that is drawn in a mathematical problem, to signify that a balance is to be determined.
- An ending balance is written on the appropriate side of the T-account.

	OTLE MEXICAN GRILL, INC.					
	onsolidated Balance Sheets*					
(in millions of dollars, except per share data)						
	March 31, 2018	December 31, 201				
ASSETS						
Current Assets:						
Cash	\$ 389	\$ 186				
Short-term investments	333	324				
Accounts receivable	49	49				
Supplies	20	20				
Prepaid expenses	51	51				
Total current assets	842	630				
Property and equipment:						
Land	21	13				
Buildings	1,711	1,677				
Equipment	637	627				
Total cost	2,369	2,317				
Accumulated depreciation	(979)	_(979)				
Net property and equipment	1,390	1,338				
Long-term investments	35	-				
Intangible assets	81	78				
Total assets	<u>\$2,348</u>	\$2,046				
LIABILITIES AND STOCKHOLDERS' EQUITY						
Current Liabilities:						
Accounts payable	\$ 82	\$ 82				
Unearned revenue	64	64				
Dividends payable	2	-				
Income taxes payable	18	18				
Accrued expenses payable:						
Wages payable	83	83				
Utilities payable		77				
Total current liabilities	326	324				
Notes payable	80	78				
Other liabilities	279	279				
Total liabilities	685	681				
Stockholders' Equity:						
Common stock (\$0.01 par value per share)	2	1				
Additional paid-in capital	1,604	1,305				
Treasury stock	(2,334)	(2,334)				
Retained earnings	2,391	2,393				
Total stockholders' equity	1,663	1,365				
Total liabilities and stockholders' equity	\$2,348	\$2,046				

Trial Balance

it is possible to create a balance sheet based solely on the investing and financing activities recorded previously. Usually, businesses first will create a trial balance spreadsheet for internal purposes before preparing statements for external users. A trial balance lists the names of the T-accounts in one column, usually in financial statement order (assets, liabilities, stockholders' equity, revenues, and expenses), with their ending debit or credit balances in the next two columns.

CHIPOTLE MEXICAN GRILL— TRIAL BALANCE

(based on hypothetical investing and financing transactions only during the first quarter ended March 31, 2018)

(in millions)	Debit	Credit
Cash	389	
Short-term investments	333	
Accounts receivable	49	
Supplies	20	
Prepaid expenses	51	
Land	21	
Buildings	1,711	
Equipment	637	
Accumulated depreciation		979
Long-term investments	35	
Intangible assets	81	
Accounts payable		82
Unearned revenue		64
Dividends payable		2
Income taxes payable		18
Wages payable		83
Utilities payable		77
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
Total	5,661	5,661

Classified Balance Sheet

- The assets and liabilities are classified into two categories: current and noncurrent. Current assets are those to be used or turned into cash within the upcoming year, whereas noncurrent assets are those that will last longer than one year. Current liabilities are those obligations to be paid or settled within the next 12 months with current assets.
- Dollar signs are indicated at the top and bottom of the asset section and top and bottom of the liabilities and shareholders' equity section. More than that tends to look messy.
- The statement includes comparative data.
 That is, it compares the actual but simplified account balances at December 31, 2017, with those at March 31, 2018, based on assumed quarterly transactions. When multiple periods are presented, the most recent balance sheet amounts are usually listed on the left, but not always (look carefully).
- Unlike Chipotle, most companies do not provide a total liabilities line on the balance sheet. To determine total liabilities on those statements, add total current liabilities and each of the noncurrent liabilities.

Current Ratio

• Does the company have the short-term resources to pay its short-term debt?

• Current Ratio =
$$\frac{\text{Current Assets}}{\text{Current Liabilities}}$$