

Chapter 3 Analyzing Business Transactions Using T Accounts

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Chapter 3 Learning Objectives

<u>SECTION 1: Transactions That Affect Assets, Liabilities, and Owner's Equity</u>

- 3-1 Set up T accounts for assets, liabilities, and owner's equity.
- 3-2 Analyze business transactions and enter them in the accounts.
- 3-3 Determine the balance of an account.

<u>SECTION 2: Transactions That Affect Revenue, Expenses, and Withdrawals</u>

- 3-4 Set up T accounts for revenue and expenses.
- 3-5 Prepare a trial balance from T accounts.
- 3-6 Prepare an income statement, a statement of owner's equity, and a balance sheet.
- 3-7 Develop a chart of accounts.
- 3-8 Define the accounting terms new to this chapter.

Section 1: Transactions That Affect Assets, Liabilities, and Owner's Equity

Learning Objective

3-1: Set up T accounts for assets, liabilities, and owner's equity.

The Accounting Equation

ASSETS

The property a business owns



LIABILITIES

The debts of the business



OWNER'S EQUITY

The owner's financial interest in the business

Classification of Accounts

Asset Accounts
 Asset accounts show the property a business

<u>Liability Accounts</u>
 Liability accounts show the debts of the business.

owns.

Owner's Equity Accounts
 Owner's equity accounts show the owner's financial interest in the business.

T Accounts

Accountants use *T accounts* to analyze transactions. A *T account* consists of a vertical line and a horizontal line that resembles the letter T. *T accounts* are helpful when analyzing transactions.

These are examples of *T accounts* for assets, liabilities, and owner's equity.

ASSETS		=	LIABILITIES		+	+ OWNER'S EQUITY	
+ Record Increases	- Record Decreases		- Record Decreases	+ Record Increases		- Record Decreases	+ Record Increases
LEFT SIDE	RIGHT SIDE		LEFT SIDE	RIGHT SIDE		LEFT SIDE	RIGHT SIDE

Section 1: Transactions That Affect Assets, Liabilities, and Owner's Equity

Learning Objective

3-2: Analyze business transactions and enter them in the accounts.

Effects of Business Transactions

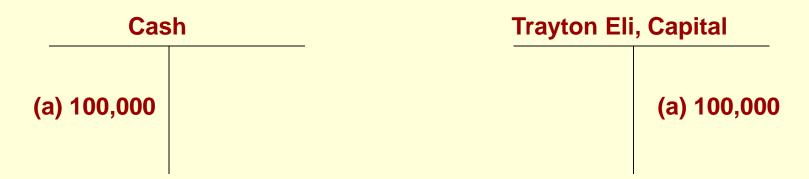
Steps to analyze the effects of the business transactions:

- 1. Analyze the financial event.
 - Identify the accounts affected.
 - Classify the accounts affected.
 - Determine the amount of increase or decrease for each account.
- 2. Apply the *left-side-right-side* rules for each account affected.
- 3. Make the entry in T-account form.

Initial Investment

Trayton Eli withdrew \$100,000 from personal savings and deposited it in the new business checking account for Eli's Consulting Services.

- LEFT Increases to asset accounts are recorded on the left side of the T account.
- RIGHT Increases to owner's equity accounts are recorded on the right side of the T account.



Business Transaction

Eli's Consulting Services issued a \$5,000 check to purchase a computer and other equipment.

- (b) The asset account, Equipment, is increased by \$5,000.
- (b) The asset account, Cash, is decreased by \$5,000.



Purchase of Equipment on Account

The firm bought office equipment for \$6,000 on account from Office Plus.

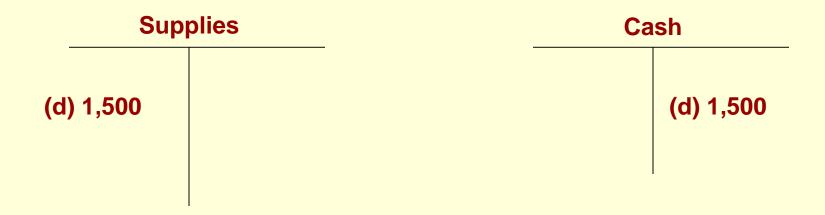
- (c) The asset account, Equipment, is increased by \$6,000.
- (c) The liability account, Accounts Payable, is increased by \$6,000.



Purchase of Supplies for Cash

Eli's Consulting Services issued a check for \$1,500 to Office Delux Inc. to purchase office supplies.

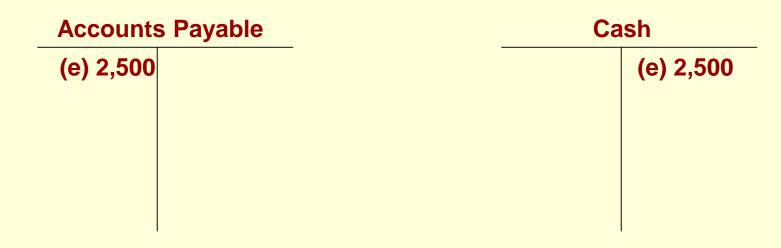
- (d) The asset account, Supplies, is increased by \$1,500.
- (d) The asset account, Cash, is decreased by \$1,500.



Payment of a Liability

Eli's Consulting Services issued a check in the amount of \$2,500 to Office Plus.

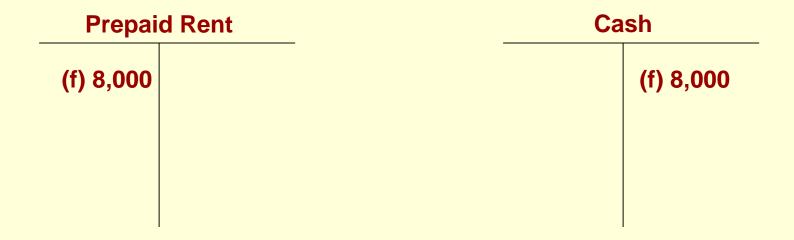
- (e) The asset account, Cash, is decreased by \$2,500.
- (e) The liability account, Accounts Payable, is decreased by \$2,500.



Prepayment of Rent

Eli's Consulting Services issued a check for \$8,000 to pay rent for the months of December and January.

- (f) The asset account, Prepaid Rent, is increased by \$8,000.
- (f) The asset account, Cash, is decreased by \$8,000.



Section 1: Transactions That Affect Assets, Liabilities, and Owner's Equity

Learning Objective

3-3: Determine the balance of an account

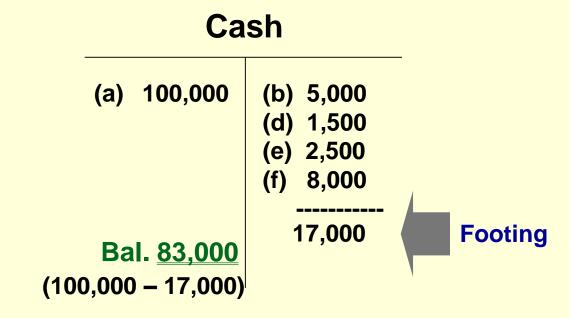
An account balance is the difference between the amounts recorded on the two sides of an account.

A footing is a small pencil figure written at the base of an amount column showing the sum of the entries in the column.

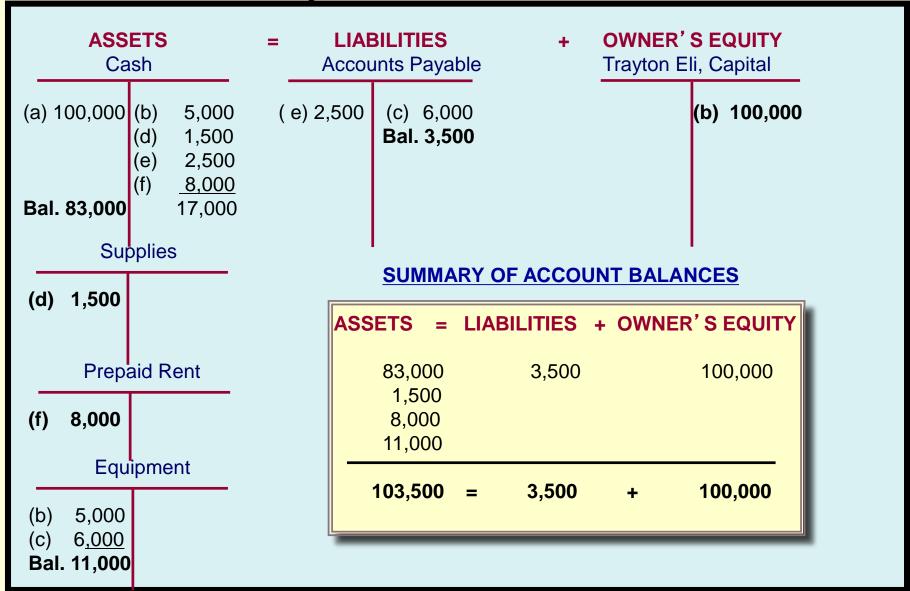
Recording Account Balances

IF	THEN
the total on the right side is larger than the total on the left side,	the balance is recorded on the right side.
the total on the left side is larger,	the balance is recorded on the left side.
an account shows only one amount,	that amount is the balance.
an account contains entries on only one side,	the total of those entries is the account balance.

Computing the Account Balance



Summary of Account Balances



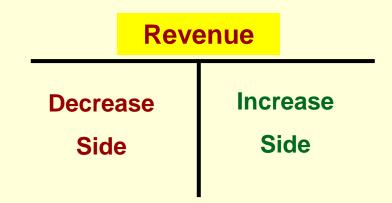
Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals

Learning Objective

3-4: Set up T accounts for revenue and expenses.

T-Account for Revenue Owner's Equity Decrease Side Side Revenue Decrease Side Side Side Side

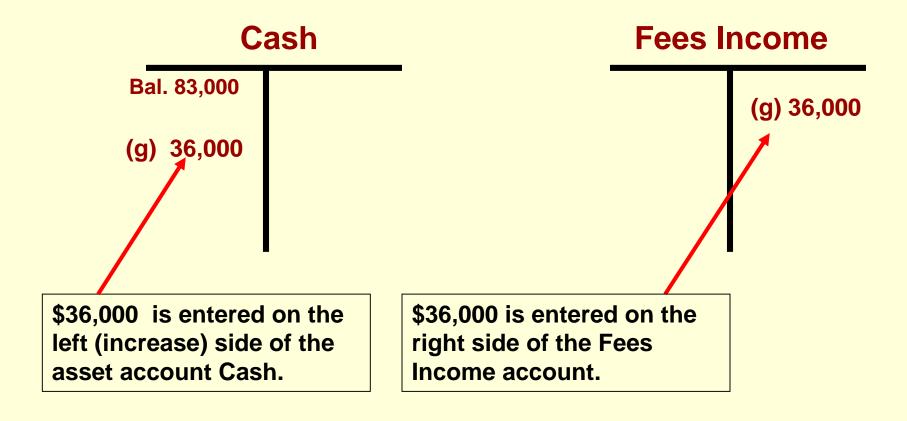
- Revenues increase owner's equity.
- Increases in owner's equity appear on the right side of the T account.
- Therefore, increases in revenue appear on the right side of revenue T accounts.



The right side of the revenue account shows increases and the left side shows decreases.

Decreases in revenue accounts are rare but might occur because of corrections or transfers.

Recording \$36,000 of Revenue from Services Sold for Cash



Recording Revenue from Services Sold on Credit

In December, Eli's Consulting Services earned \$11,000 from various charge account clients.

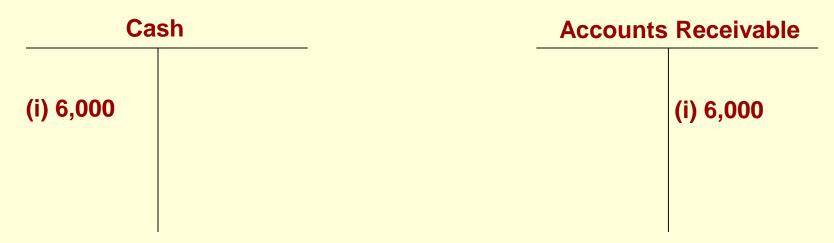
- (h) The asset account, Accounts Receivable, is increased by \$11,000.
- (h) The revenue account, Fees Income, is increased by \$11,000.

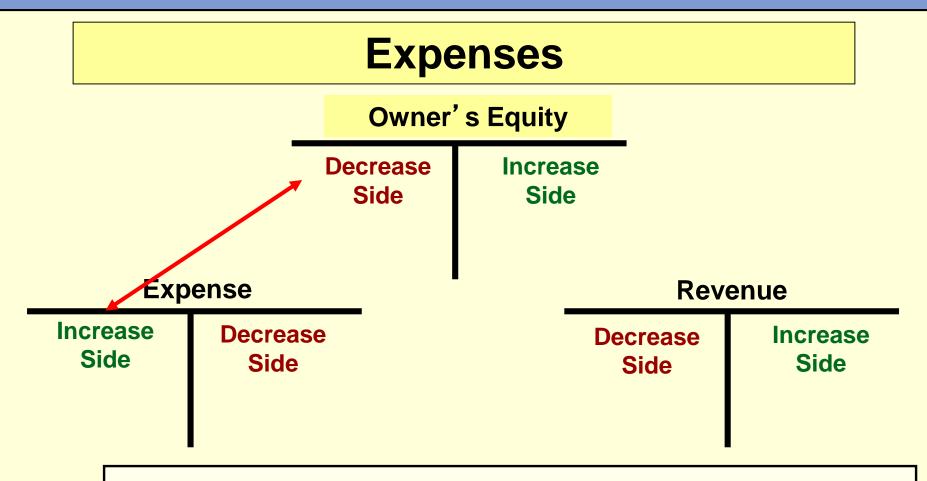
Accounts Receivable	Fees Income
(h) 11,000	(h) 11,000

Receipt of Payments on Account

Charge account clients paid \$6,000, reducing the amount owed to Eli's Consulting Services.

- (i) The asset account, Cash, is increased by \$6,000.
- (i) The asset account, Accounts Receivable, is decreased by \$6,000.



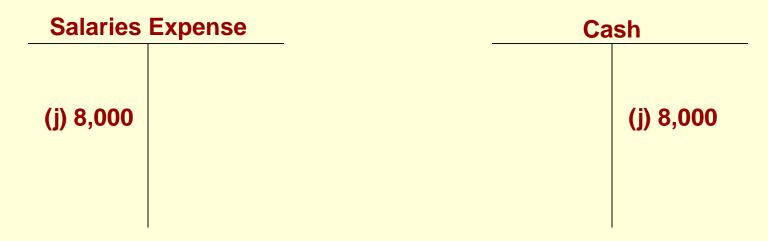


- Expenses decrease owner's equity.
- Decreases in owner's equity appear on the <u>left</u> side of the T accounts.

Payment of Salaries

In December, Eli's Consulting Services paid \$8,000 in salaries.

- (j) The asset account, Cash, is decreased by \$8,000.
- (j) The expense account, Salaries Expense, is increased by \$8,000.



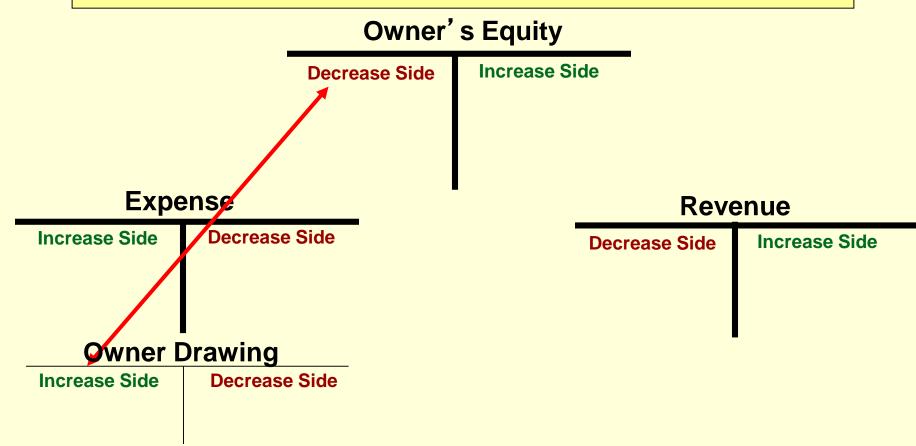
Payment of Utilities

Eli's Consulting Services issued a check for \$650 to pay the utilities bill.

- (k) The asset account, Cash, is decreased by \$650.
- (k) The expense account, Utilities Expense, is increased by \$650.

Utilities Expense	Cash
(k)650	(k) 650



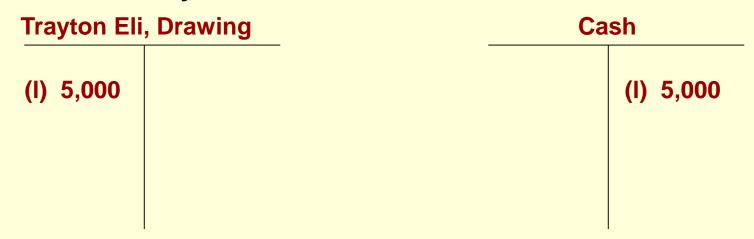


- Drawing decreases owner's equity.
- Decreases in owner's equity appear on the left side of the T accounts.

The Owner Withdraws Funds

Trayton Eli wrote a check to withdraw \$5,000 cash for personal use.

- (I) The asset account, Cash, is decreased by \$5,000.
- (I) The owner's equity account, Trayton Eli, Drawing, is increased by \$5,000.



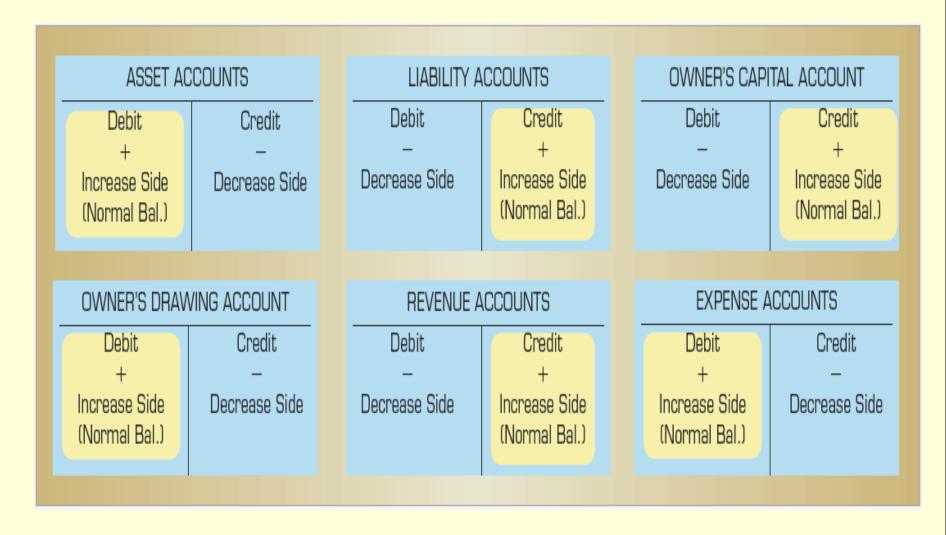
The Rules of Debit and Credit

- A debit is an entry on the left side of an account.
- A credit is an entry on the right side of an account.
- A double-entry system is an accounting system that involves recording the effects of each transaction as debits and credits in separate accounts.
- Every transaction in a Double entry accounting system has at least one debit and one credit.
- •The total of the debits and credits recorded in the separate accounts must be EQUAL.



- Accountants refer to the left side of an account as the debit side instead of saying the left side.
- The right side of the account is called the credit side.

Rules for Debits and Credits



Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals

Learning Objective

3-5: Prepare a trial balance from T accounts.

- 1. Use the proper heading to include who, what, and when information.
- 2. List the accounts in chart of account order or in the same order as they appear in the financial statement.
- 3. Enter the ending balance of each account in the appropriate Debit or Credit column.
- 4. Total the Debit column.
- 5. Total the Credit column.
- Compare the column totals. They should be equal.

The Trial Balance

Eli's Consulting Services Trial Balance 12/31/2019

ACCOUNT NAME:	DEBIT	CREDIT
Cash	\$111,350.00	
Accounts Receivable	5,000.00	
Supplies	1,500.00	
Prepaid Rent	8,000.00	
Equipment	11,000.00	
Accounts Payable		\$3,500.00
Trayton Eli, Capital		100,000.00
Trayon Eli, Drawing	5,000.00	
Fees Income		47,000.00
Salaries Expense	8,000.00	
Utilities Expense	650.00	
Totals	<u>\$150,500.00</u>	<u>\$150,500.00</u>

Errors

Some common errors in a trial balance are:

- Adding trial balance columns incorrectly
- Recording only half a transaction for example, recording a debit but not recording a credit, or vice versa
- Recording both halves of a transaction as debits or credits rather than recording one debit and one credit
- Recording the incorrect amount for a transaction
- Recording a debit for one amount and a credit for a different amount
- Mathematical errors in calculating account balances
- Forgetting to carry over an account balance to the Trial Balance

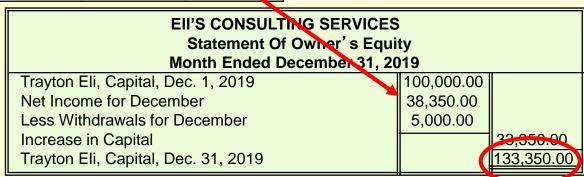
Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals

Learning Objective

3-6: Prepare an income statement, a statement of owner's equity, and a balance sheet.

- After the trial balance is prepared, the financial statements are prepared.
- Net income from the income statement is used on the statement of owner's equity.
- The ending balance of the Trayton Eli, Capital account, computed on the statement of owner's equity, is used on the balance sheet.

EII'S CONSULTING SERVICES Income Statement Month Ended December 31, 2019			
Revenue		47,000,00	
Fees Income Expenses		47,000.00	
Salaries Expense	8,000.00		
Utilities Expense	650.00		
Total Expenses		8 650 00	
Net Income		38,350.00	



EII'S CONSULTING SERVICES Balance Sheet December 31, 2019			
ASSETS		LIABILITIES	
Cash	111,350.00	Accounts Payable	3,500.00
Accounts Receivable	5,000.00		/
Supplies	1,500.00		
Prepaid Rent	8,000.00	OWNER'S EQUITY	
Equipment	11,000.00	Trayton Eli, Capital	133,350.00
Total Assets	136,850.00	Total Liabilities and Owner's Equity	136,850.00

3-41

Section 2: Transactions That Affect Revenue, Expenses, and Withdrawals

Learning Objective

3-7: Develop a chart of accounts

- Each account has a number and a name.
- The Balance Sheet accounts are listed first, followed by the Statement of Owner's Equity accounts, ending with the income statement accounts.
- The account number is assigned based on the type of account.
- Each account should have a number assigned to its title (name)
- Balance Sheet accounts are listed before income statement accounts.

Section 2, Objective 3-7: Develop a chart of accounts

Eli's Consulting Services	5
Chart of Accounts	

Account Number	Account Name
Balance Sheet Accounts	
100-199	ASSETS
101	Cash
111	Accounts Receivable
121	Supplies
137	Prepaid Rent
141	Equipment
200-299	LIABILITIES
202	Accounts Payable
300-399	OWNER'S EQUITY
301	Trayton Eli, Capital
Statement of Owner's Equity Account	
302	Trayton Eli, Drawing
Income Statement Accounts	
400-499	REVENUE
401	Fees Income
500-599	EXPENSES
511	Salaries Expense
514	Utilities Expense

Permanent and Temporary Accounts

A permanent account is an account that is kept open from one accounting period to the next.

A temporary account is an account whose balance is transferred to another account at the end of an accounting period. A temporary account is "zeroed out" at the end of the accounting period.

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