

Chapter 4

How Does an Organization Accumulate and Organize the Information Necessary to Prepare Financial Statements?

4.1 The Essential Role of Transaction Analysis

LEARNING OBJECTIVES

At the end of this section, students should be able to meet the following objectives:

1. Define “transaction” and provide common examples.
2. Define “transaction analysis” and explain its importance to the accounting process.
3. Identify the account changes created by the purchase of inventory, the payment of a salary, and the borrowing of money.
4. Understand that accounting systems can be programmed to automatically record expenses such as salary as it accrues.

Question: Information provided by a set of financial statements is essential to any individual analyzing a business or other organization. The availability of a fair representation of a company’s financial position, operations, and cash flows is invaluable for a wide array of decision makers. However, the sheer volume of data that a company such as General Mills, McDonald’s, or PepsiCo must gather in order to prepare these statements has to be astronomical. Even a small enterprise—a local convenience store, for example—generates a significant quantity of information virtually every day. How does an accountant begin the process of accumulating all the necessary data so that financial statements can eventually be produced?

Answer: The accounting process starts by analyzing the effect of **transactions**—any event that has a financial impact on a company. Large organizations participate in literally millions of transactions each year that must be gathered, sorted, classified, and turned into a set of financial statements that cover a



mere four or five pages. Over the decades, accountants have had to become very efficient to fulfill this seemingly impossible assignment. Despite the volume of transactions, the goal remains the same: to prepare financial statements that are presented fairly because they contain no material misstatements according to U.S. generally accepted accounting principles (U.S. GAAP).

For example, all the occurrences listed in are typical transactions that any company might encounter. Each causes some measurable effect on a company's assets, liabilities, revenues, expenses, gains, losses, capital stock, or dividends paid. The accounting process begins with an analysis of each transaction to determine the financial changes that took place. Was revenue earned? Did a liability increase? Has an asset been acquired?

Figure 4.1 Transactions Frequently Encountered

- 1—Buy inventory on credit for \$2,000
- 2—Pay regular salary of \$300 to an employee for work done during the past week; no amount had previously been recorded
- 3—Borrow \$9,000 in cash from bank by signing a loan agreement
- 4—Make a sale of the inventory bought in (1) to a customer for \$5,000 on credit
- 5—Pay \$700 for insurance coverage for the past few months; this amount has previously been recognized in the company's accounting system as it was incurred
- 6—Buy a new automobile for the company for a price of \$40,000 by paying \$10,000 in cash and signing a note for the remainder
- 7—Issue ownership shares to a new stockholder for cash of \$19,000
- 8—Collect cash from customer on earlier sale in (4)
- 9—Pay cash for the inventory acquired in (1)
- 10—Pay \$4,000 to rent a building for the next four months

In any language, successful communication is only possible if the information to be conveyed is properly understood. Likewise, in accounting, transactions must be analyzed so their impact is understood. A vast majority of transactions are relatively straightforward so that, with experience, the accountant can ascertain the financial impact almost automatically. For transactions with greater complexity, the necessary analysis becomes more challenging. However, the importance of this initial step in the production of financial statements cannot be overstressed. The well-known computer aphorism captures the essence quite succinctly: “garbage in, garbage out.” There is little hope that financial statements can



be fairly presented unless the entering data are based on an appropriate identification of the changes created by each transaction.

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092626.html>

Transaction Analysis

Question: Transaction 1—A company buys inventory on credit for \$2,000. How does transaction analysis work here? What accounts are affected by this purchase?

Answer: Inventory, which is an asset, increases by \$2,000. The organization has more inventory than it did prior to the purchase. Because no money has yet been paid for these goods, a liability for the same amount has been created. The term **accounts payable** is often used in financial accounting to represent debts resulting from the acquisition of inventory and supplies.

inventory (asset) increases by \$2,000
accounts payable (liability) increases by \$2,000

Note that the accounting equation described in the previous chapter remains in balance. Assets have gone up by \$2,000 while the liability side of the equation has also increased by the same amount to reflect the source of this increase in the company's assets.

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092605.html>



Question: Transaction 2—A company pays a salary of \$300 to one of its employees for work performed during the past week. No amount had previously been recorded by the accounting system for this amount. What accounts are affected by this salary payment?

Answer: Cash (an asset) is decreased here by \$300. Whenever cash is involved in a transaction, determining that change is a good place to start the analysis. Increases and decreases in cash are often obvious.

The cash balance declined here because salary was paid to an employee. Assets were reduced as a result of the payment. That is a cost to the company. Thus, a salary expense of \$300 is reported. Recognizing an expense is appropriate rather than an asset because the employee's work reflects a past benefit. The effort has already been carried out, generating revenues for the company in the previous week rather than in the future.

salary expense (expense) increases by \$300

cash (asset) decreased by \$300

The continued equilibrium of the accounting equation does exist here although it is less obvious. Assets are decreased. At the same time, an expense is recognized. This expense reduces reported net income. On the statement of retained earnings, current net income becomes a component of retained earnings. The reduction in income here serves to decrease retained earnings. Because both assets and retained earnings go down by the same amount, the accounting equation continues to balance.

Question: In Transaction 2, the company paid a salary of \$300 that it owed to a worker. Why does a payment to an employee not reduce a salary payable balance?

Answer: Costs such as salary, rent, or interest increase gradually over time and are often referred to as **accrued expenses** because the term “accrue” means “to grow.” An accounting system can be



mechanically structured to record such costs in either of two ways. The results are the same but the steps in the process differ.

- Some companies simply ignore accrued expenses until paid. At that time, the expense is recognized and cash is reduced. No liability is entered into the accounting system or removed. Because the information provided above indicates that nothing has been recorded to date, this approach is used here.
- Other companies choose to program their computer systems so that both the expense and the related liability are recognized automatically as the amount grows. For salary, as an example, this increase could literally be recorded each day or week based on the amount earned by employees. At the time payment is finally conveyed, the expense has already been recorded. Thus, the liability is removed because that debt is being settled. Below, in Transaction 5, this second possible approach to recording accrued expenses is illustrated.

A company can recognize an accrued expense (such as a salary) as incurred or wait until payment. This decision depends on the preference of company officials. The end result (an expense is reported and cash decreased) is the same, but the recording procedures differ. As will be discussed, if no entry has been made for such costs prior to the production of financial statements (the first alternative), both the expense and the payable do have to be recognized at that time so that all balances are properly stated for reporting purposes.

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092606.html>

Question: Transaction 3—A company borrows \$9,000 from a bank. What is the impact of signing a loan agreement with a bank or other lending institution?



Answer: Cash is increased by the amount of money received from the lender. The company is obligated to repay this balance and, thus, has incurred a new liability. As with many transactions, the financial impact is reasonably easy to ascertain.

cash (asset) increases by \$9,000

note payable (liability) increases by \$9,000

KEY TAKEAWAY

Most organizations must gather an enormous quantity of information as a prerequisite for preparing financial statements periodically. This process begins with an analysis of the impact of each transaction (financial event). After the effect on all account balances is ascertained, the recording of a transaction is relatively straightforward. The changes caused by most transactions—the purchase of inventory or the signing of a note, for example—can be determined quickly. For accrued expenses, such as salary or rent that grow over time, the accounting system can record the amounts gradually as incurred or only at the point of payment. However, the figures to be reported are not impacted by the specific mechanical steps that are taken.



4.2 The Effects Caused by Common Transactions

LEARNING OBJECTIVES

At the end of this section, students should be able to meet the following objectives:

1. Explain the reason that a minimum of two accounts are impacted by every transaction.
2. Identify the account changes that are created by the payment of insurance and rent, the sale of merchandise, the acquisition of a long-lived asset, a capital contribution, the collection of a receivable, and the payment of a liability.
3. Separate the two events that occur when inventory is sold and determine the effect of each.

Question: Transaction 4—The inventory items that were bought in Transaction 1 for \$2,000 are now sold for \$5,000 on account. What balances are impacted by the sale of merchandise in this manner?

Answer: Two things actually happen in the sale of inventory. First, revenue of \$5,000 is generated by the sale. Because the money will not be collected until a later date, accounts receivable (an asset) is initially increased. The reporting of receivable balance indicates that this amount is due from a customer and should be collected at some subsequent point in time.

accounts receivable (asset) increases by \$5,000

sales (revenue) increases by \$5,000

Second, the inventory is removed. Companies have an option in the method by which inventory balances are monitored. Here, a **perpetual inventory system** will be utilized. That approach has become extremely common due to the prevalence of computer systems in the business world. It maintains an ongoing record of the inventory held and the amount that has been sold to date. All changes in inventory are recorded immediately. However, in a later chapter, an alternative approach—still used by some companies—known as a **periodic inventory system** will also be demonstrated.



Since a perpetual system is being used here, the reduction in inventory is recorded simultaneously with the sale. An expense is incurred as inventory costing \$2,000 is taken away by the customer. The company's assets are reduced by this amount. Cost of goods sold (an expense) is recognized to reflect this decrease in the amount of merchandise on hand.

cost of goods sold (expense) increases by \$2,000

inventory (asset) decreases by \$2,000

The \$3,000 difference between the sales revenue of \$5,000 and the related cost of goods sold of \$2,000 is known as the gross profit (or gross margin or mark up) on the sale.

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092607.html>

Question: In each event that has been studied so far, two accounts have been affected. Are two accounts impacted by every possible transaction?

Answer: In every transaction, a cause and effect relationship is always present. For example, accounts receivable increases because of a sale. Cash decreases as a result of paying salary expense. No account can possibly change without some identifiable cause. Thus, every transaction must touch a minimum of two accounts. Many transactions actually affect more than two accounts but at least two are impacted by each of these financial events.

Question: Transaction 5—The reporting company pays \$700 for insurance coverage relating to the past few months. The amount was previously recorded in the company's accounting system as the cost was incurred. Apparently, computers were programmed to accrue this expense periodically. What is the financial impact of paying for an expense if the balance has already been recognized over time as the liability grew larger?



Answer: Several pieces of information should be noted here as part of the analysis.

- Cash declined by \$700 as a result of the payment.
- This cost relates to a past benefit; thus, an expense has to be recorded. No future economic benefit is created by the insurance payment in this example. Cash was paid for coverage over the previous months.
- The company's accounting system has already recorded an accrual of this amount. Thus, insurance expense and the related liability were recognized as incurred. This is clearly a different mechanical procedure than that demonstrated in Transaction 2 above for the salary payment.

The expense cannot be recorded again or it will be double-counted. Instead, cash is reduced along with the liability established through the accrual process. The expense was recorded already so no additional change in that balance is needed. Instead, the liability is removed and cash decreased.

insurance payable (liability) decreases by \$700

cash (asset) decreases by \$700

Note that accounting recognition is often dependent on the recording that has taken place. The final results should be the same (here an expense is recognized and cash decreased), but the steps in the process can vary.

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092608.html>

Question: Transaction 6—A truck is acquired for \$40,000 but only \$10,000 in cash is paid by the company. The other \$30,000 is covered by signing a note payable. This transaction seems to be a bit more complicated because more than two figures are involved. What is the financial impact of buying an asset when only a portion of the cash is paid on that date?



Answer: In this transaction, for the first time, three accounts are impacted. A truck is bought for \$40,000, so the recorded balance for this asset is increased by that cost. Cash decreases \$10,000 while the notes payable balance rises by \$30,000. These events each happened. To achieve a fair presentation, the accounting process seeks to reflect the actual occurrences that took place. As long as the analysis is performed properly, recording a transaction is no more complicated when more than two accounts are affected.

truck (asset) increases by \$40,000

cash (asset) decreases by \$10,000

notes payable (liability) increases by \$30,000

Question: Transaction 7—Assume that several individuals approach the company and offer to contribute \$19,000 in cash to the business in exchange for capital stock so that they can join the ownership. The offer is accepted. What accounts are impacted by the issuance of capital stock to the owners of a business?

Answer: When cash is contributed to a company for a portion of the ownership, cash obviously goes up by the amount received. This money was not generated by revenues or by liabilities but rather represents assets given freely so that new ownership shares could be issued. This inflow is reflected in the financial statements as increases in the cash and capital stock accounts. Outside decision makers can see that this amount of the company's net assets came from investments made by owners.

cash (asset) increases by \$19,000

capital stock (stockholders' equity) increases by \$19,000

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092640.html>

Question: Transaction 8—A sale of merchandise was made previously in Transaction 4 for \$5,000. No cash was received at that time but is collected now. What accounts are affected by the receipt of money from an earlier sale?

Answer: The revenue from this transaction was properly recorded previously in Transaction 4 when the sale originally took place and the account receivable balance was established. Revenue should not be recorded again or it will be double-counted causing reported net income to be overstated. Instead, the accountant indicates that this increase in cash is caused by the decrease in the accounts receivable balance.

cash (asset) increases by \$5,000

accounts receivable (asset) decreases by \$5,000

Question: Transaction 9—Inventory was bought in Transaction 1 for \$2,000 and later sold in Transaction 4. Now, however, the company is ready to make payment on the amount owed for this merchandise. When cash is delivered to settle a previous purchase of inventory, what is the financial effect of the transaction?

Answer: As a result of the payment, cash is decreased by \$2,000. The inventory was recorded previously when acquired. Therefore, this new transaction does not replicate that effect. Instead, the liability established in number 1 is removed from the books. The company is not buying the inventory again but simply paying the debt established for these goods.

accounts payable (liability) decreases by \$2,000

cash (asset) decreases by \$2,000



EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092627.html>

Question: Transaction 10—The company wants to rent a building to use for the next four months and pays the property's owner \$4,000 to cover this cost. When a rent or other payment provides the company with a future benefit, what recording is appropriate?

Answer: In acquiring the use of this property, the company's cash decreases by \$4,000. The money was paid in order to utilize the building for four months in the future. The anticipated economic benefit is an asset and should be reported to decision makers by establishing a prepaid rent balance. The reporting company has paid to use the property at a designated time in the future to help generate revenues.

prepaid rent (asset) increases \$4,000

cash (asset) decreases by \$4,000

KEY TAKEAWAY

Accountants cannot record transactions without understanding the impact that has occurred. Whether inventory is sold or an account receivable is collected, at least two accounts are always affected because all such events have both a cause and a financial effect. Individual balances rise or fall depending on the nature of each transaction. The payment of insurance, the collection of a receivable, a capital contribution, and the like all cause very specific changes in account balances. One of the most common is the sale of inventory where both an increase in revenue and the removal of the merchandise takes place. Increases and decreases in inventory are often monitored by a perpetual system that reflects all such changes immediately. In a perpetual system, cost of goods sold—the expense that measures the cost of inventory acquired by a company's customers—is recorded at the time of sale.



4.3 An Introduction to Double-Entry Bookkeeping

LEARNING OBJECTIVES

At the end of this section, students should be able to meet the following objectives:

1. Explain the history of double-entry bookkeeping.
2. List the four steps followed in the accounting process.
3. Indicate the purpose of a T-account.
4. List the rules for using debits and credits.
5. Understand the reason that debits and credits are always equal.

Question: Transaction analysis determines the changes in account balances as the events of each day take place. Financial statements provide a formal structure to communicate the resulting balances periodically to an array of interested parties. Revenues, expenses, gains, and losses are presented on an income statement where they are combined to arrive at reported net income for the period. Total income earned and dividends paid by the company over its entire life are netted to compute the current retained earnings balance. Assets, liabilities, capital stock, and retained earnings are all displayed on a balance sheet. Changes in cash are separated into operating activities, investing activities, and financing activities and disclosed on a statement of cash flows. Notes offer pages of additional explanatory information. The amount of financial data that is readily available is impressive.

The accountant for a business of any significant size faces a daunting challenge in creating financial statements: gathering, measuring, and reporting the impact of the many varied events that occur virtually every day. As an example, for 2008, Xerox Corporation disclosed revenues of over \$17.6 billion and operating expenses and other costs of \$17.4 billion. At the end of 2008, the Kellogg Company reported holding \$897 million in inventory—which is a lot of cereal—and indicated that its operating activities that year generated a net cash inflow of nearly \$1.3 billion. How can any organization possibly amass and maintain such an enormous volume of data so that financial statements can be produced with no material misstatements?



Answer: Over five hundred years ago, Venetian merchants in Italy developed a system that continues to serve in the twenty-first century as the basis for accumulating financial data throughout much of the world. Today, when every aspect of modern society seems to be in a constant state of flux, a process that has remained in use for over five centuries is almost impossible to comprehend. However, the **double-entry bookkeeping** procedures that were first documented in 1494 by Fra Luca Bartolomeo de Pacioli (a friend of Leonardo da Vinci) remain virtually unchanged by time. Organizations, both small and large, use the fundamentals of **double-entry bookkeeping** to collect the information needed to produce financial statements that are fairly presented according to the rules of U.S. GAAP.

Question: This assertion sounds like science fiction. It hardly seems believable that Xerox keeps up with over \$17.6 billion in revenue (approximately \$48 million per day) using the same methods that Venetian merchants applied to their transactions during the Renaissance. How can a five-hundred-year-old bookkeeping system possibly be usable by today's modern businesses?

Answer: State-of-the-art computers and other electronic devices are designed to refine and accelerate the financial accounting process but the same basic organizing procedures have been utilized now for hundreds of years. In simplest terms, accounting systems are all created to follow four sequential steps:

- Analyze
- Record
- Adjust
- Report

As explained previously, financial accounting starts by analyzing each transaction—every event that has a monetary impact on the organization—to ascertain the changes created in accounts such as rent expense, cash, inventory, and dividends paid. Fortunately, a vast majority of any company's transactions are repetitive so that many of the effects can be easily anticipated. A sale on credit always increases both accounts receivable and revenues. Regardless of the time or place, a cash purchase of equipment increases the balance reported for equipment while decreasing cash. Computer systems can be programmed to



record the impact of these events automatically allowing the accountant to focus on analyzing more complex transactions.

Question: The second step in the accounting system is listed above as “record.” At the beginning of this chapter, a number of transactions were presented and their impact on individual accounts determined. Following this analysis, some method has to be devised to capture the information in an orderly fashion. Officials could just list the effect of each transaction on a sheet of paper: increase inventory \$2,000 and increase accounts payable \$2,000; increase salary expense \$300 and decrease cash \$300. However, this process is slow and poorly organized. A more efficient process is required. What is the key to recording transactions after all account changes are identified?

Answer: An essential step in understanding the accounting process is to realize that financial information is accumulated by **accounts**. Every balance to be reported in a company’s financial statements is maintained in a separate account. Thus, for assets, an individual account is established to monitor cash, accounts receivable, inventory, and so on. To keep track of expenses, a number of additional accounts are needed, such as cost of goods sold, rent expense, salary expense, and repair expense. The same is true for revenues, liabilities, and other categories. A small organization might utilize only a few dozen accounts for its entire recordkeeping system. A large company could have thousands.

Based on the original Venetian model, the balance for each account is monitored in a form known as a **T-account** as displayed in . This structure provides room for recording on both the left side (known as the **debit** side) and the right side (the **credit** side).

Figure 4.2 Common T-Accounts

Cash		Salary Payable		Revenue		Rent Expense	
Debit	Credit	Debit	Credit	Debit	Credit	Debit	Credit

One side of each T-account records increases; the other side indicates decreases. For over five hundred years, the following rules have applied.

The following are accounts where debits reflect an increase and credits a decrease:

- Expenses and losses
- Assets
- Dividends paid ^[1]

The following are accounts where credits reflect an increase and debits a decrease:

- Liabilities
- Capital stock
- Revenues and gains
- Retained earnings ^[2]

The debit and credit rules for these seven general types of accounts provide a short-hand method for recording the financial impact that a transaction has on any account. They were constructed in this manner so that the following would be true:

debits must always equal credits for every transaction.

At first, the debit and credit rules might seem completely arbitrary. However, they are structured to mirror the cause and effect relationship found in every transaction. This is the basis of what the Venetian merchants came to understand so long ago: every effect must have a cause.

To illustrate:

- Assume an asset (such as cash) increases. As shown above, that is recorded on the debit side of the specific asset's T-account. What could cause an asset to become larger? A reason must exist. A liability—possibly a bank loan—could have been incurred (recorded as a credit); capital stock could have been issued to an owner (a credit); revenue could have been earned from a sale (a credit);

another asset could have been sold (a credit). The list of possible reasons is relatively short. In each case, the debit (increase) to the asset is caused by an equal and offsetting credit.

- Assume an asset (such as cash) decreases. This change is recorded on the credit side of the asset's T-account. What might cause this reduction? An expense could have been paid (recorded as a debit); a dividend could have been distributed to shareholders (a debit); a liability could have been extinguished (a debit); another asset could have been acquired (a debit). Once again, the cause and effect relationship is reflected; the debits equal the credits. Each effect is set equal and opposite to every potential cause.

There are only seven types of accounts. Therefore, a mastery of debit and credit rules can be achieved with a moderate amount of practice. Because of the fundamental position of debits and credits within every accounting system, this knowledge is well worth the effort required.

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092609.html>

KEY TAKEAWAY

Most companies participate in numerous transactions each day that must be examined and organized so that financial statements can be prepared. This process requires four steps: analyze, record, adjust, and report. Over five hundred years ago, double-entry bookkeeping was created as a mechanical process to facilitate this gathering and reporting of financial information. A T-account is maintained for each of the accounts (such as cash, accounts payable, and rent expense) to be reported by a company. The left side of the T-account is the debit side, and the right side is the credit. Expenses and losses, assets, and dividends paid increase with debits. Liabilities, revenues and gains,



capital stock, and retained earnings increase with credits. Debits always equal credits because every transaction must have both an effect and a cause for that effect.

[1] One method to keep track of these accounts initially is to remember them as the “DEAD” accounts: **d**ebits increase, **e**xpenses and losses, **a**ssets, and **d**ividends paid. Quickly, though, through practice, such mnemonic devices will not be needed.

[2] Changes in the balance reported for retained earnings normally do not come as a direct result of a transaction. As discussed previously, this account reflects all the net income earned to date reduced by all dividend payments. Income is made up of revenues, expenses, gains, and losses. Accounting recognition of revenues and gains (which increase with credits) lead to a larger retained earnings balance. Expenses, losses, and dividends paid (which all increase with debits) reduce retained earnings. Consequently, credits cause an increase in retained earnings whereas debits produce a decrease.



4.4 Preparing Journal Entries

LEARNING OBJECTIVES

At the end of this section, students should be able to meet the following objectives:

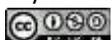
1. Describe the purpose and structure of a journal entry.
2. Identify the purpose of a journal.
3. Define “trial balance” and indicate the source of its monetary balances.
4. Prepare journal entries to record the effect of acquiring inventory, paying salary, borrowing money, and selling merchandise.
5. Define “accrual accounting” and list its two components.
6. Explain the purpose of the revenue realization principle.
7. Explain the purpose of the matching principle.

Question: In an accounting system, the impact of each transaction is analyzed and must then be recorded. Debits and credits are used for this purpose. How does the actual recording of a transaction take place?

Answer: The effects produced on the various accounts by a transaction should be entered into the accounting system as quickly as possible so that information is not lost and mistakes have less time to occur. After analyzing each event, the financial changes caused by a transaction are initially recorded as a **journal entry**.^[1] A list of all recorded journal entries is maintained in a **journal** (also referred to as a **general journal**), which is one of the most important components within any accounting system. The journal is the diary of the company: the history of the impact of the financial events as they took place.

A journal entry is no more than an indication of the accounts and balances that were changed by a transaction.

Question: Debit and credit rules are best learned through practice. In order to grasp the use of debits and credits, how should the needed practice begin?



Answer: When faced with debits and credits, everyone has to practice at first. That is normal and to be expected. These rules can be learned quickly but only by investing a bit of effort. Earlier in this chapter, a number of transactions were analyzed to determine their impact on account balances. Assume now that these same transactions are to be recorded as journal entries. To provide a bit more information for this illustration, the reporting company will be a small farm supply store known as the Lawndale Company that is located in a rural area. For convenience, assume that the company incurs these transactions during the final few days of Year One, just prior to preparing financial statements.

Assume further that this company already has the account balances presented in in its T-accounts before making this last group of journal entries. Note that the total of all the debit and credit balances do agree (\$54,300) and that every account shows a positive balance. In other words, the figure being reported is either a debit or credit based on what makes that particular type of account increase. Few T-accounts contain negative balances.

This current listing of accounts is commonly referred to as a **trial balance**. Since T-accounts are kept together in a ledger (or general ledger), a trial balance reports the individual balances for each T-account maintained in the company's ledger.



Figure 4.3 Balances Taken From T-accounts in Ledger

Lawndale Company		
Trial Balance (prior to recording new transactions)		
Account	Debit Balance	Credit Balance
Cash	\$20,000	
Accounts receivable	9,000	
Inventory	8,000	
Insurance payable		\$700
Accounts payable		2,600
Notes payable (long term)		10,000
Capital stock		12,000
Retained earnings (beginning of year)		7,000
Sales of merchandise		22,000
Cost of goods sold	12,000	
Rent expense	3,600	
Salary expense	1,000	
Insurance expense	700	
Totals	<u>\$54,300</u>	<u>\$54,300</u>

Question: Assume that after the above balances were determined, several additional transactions took place. The first transaction analyzed at the start of this chapter was the purchase of inventory on credit for \$2,000. This acquisition increases the record of the amount of inventory being held while also raising one of the company's liabilities, accounts payable. How is the acquisition of inventory on credit recorded in the form of a journal entry?

Answer: Following the transactional analysis, a journal entry is prepared to record the impact that the event has on the Lawndale Company. Inventory is an asset that always uses a debit to note an increase. Accounts payable is a liability so that a credit indicates that an increase has occurred. Thus, the following journal entry is appropriate.^[2]

Figure 4.4 Journal Entry 1: Inventory Acquired on Credit

Inventory	2,000	(increase an asset—debit)
Accounts Payable	2,000	(increase a liability—credit)

Notice that the word “inventory” is physically on the left of the journal entry and the words “accounts payable” are indented to the right. This positioning clearly shows which account is debited and which is credited. In the same way, the \$2,000 numerical amount added to the inventory total appears on the left (debit) side whereas the \$2,000 change in accounts payable is clearly on the right (credit) side.

Preparing journal entries is obviously a mechanical process but one that is fundamental to the gathering of information for financial reporting purposes. Any person familiar with accounting procedures could easily “read” the above entry: based on the debit and credit, both inventory and accounts payable have gone up so a purchase of merchandise for \$2,000 on credit is indicated. Interestingly, with translation of the words, a Venetian merchant from the later part of the fifteenth century would be capable of understanding the information captured by this journal entry even if prepared by a modern company as large as Xerox or Kellogg.

Question: As a second example, the Lawndale Company pays its employees their regular salary of \$300 for work performed during the past week. If no entry has been recorded previously, what journal entry is appropriate when a salary payment is made?

Answer: Because no entry has yet been made, neither the \$300 salary expense nor the related salary payable already exists in the accounting records. Apparently, the \$1,000 salary expense appearing in the above trial balance reflects earlier payments made during the period by the company to its employees.

Payment is made here for past work so this cost represents an expense rather than an asset. Thus, the balance recorded as salary expense goes up by this amount while cash decreases. Increasing an expense is always shown by means of a debit; decreasing an asset is reflected through a credit.

Figure 4.5 *Journal Entry 2: Salary Paid to Employees*

Salary Expense	300		(increase an expense—debit)
Cash		300	(decrease an asset—credit)



In practice, the date of each transaction could also be included here. For illustration purposes, this extra information is not necessary.

Question: Assume \$9,000 is borrowed from a local bank when officials sign a new note payable that will have to be repaid in several years. What journal entry is prepared by a company's accountant to reflect the inflow of cash received from a loan?

Answer: As always, recording begins with an analysis of the transaction. Here, cash increases as the result of the incurred debt (notes payable). Cash—an asset—increases \$9,000, which is shown as a debit. The company's notes payable balance also goes up by the same amount. As a liability, the increase is recorded through a credit. By using debits and credits in this way, the financial effects are entered into the accounting records.

Figure 4.6 *Journal Entry 3: Money Borrowed from Bank*

Cash	9,000		(increase an asset—debit)
Notes Payable		9,000	(increase a liability—credit)

EXERCISE

Link to multiple-choice question for practice purposes:
<http://www.quia.com/quiz/2092610.html>

Question: In Transaction 1, inventory was bought for \$2,000. That entry is recorded above. Assume now that these goods are sold for \$5,000 to a customer on credit. How is the sale of merchandise on account recorded in journal entry form?

Answer: As discussed previously, two events really happen when inventory is sold. First, the sale is made and, second, the customer takes possession of the merchandise from the company. Assuming again that a perpetual inventory system is in use, both the sale and the related expense are recorded immediately. In



the initial part of the transaction, the accounts receivable balance goes up \$5,000 because the money from the customer will not be collected until a later date. The increase in this asset is shown by means of a debit. The new receivable resulted from a sale. Revenue is also recorded (by a credit) to indicate the cause of that effect.

Figure 4.7 Journal Entry 4A: Sale Made on Account

Accounts Receivable	5,000		(increase an asset—debit)
Sales of Merchandise		5,000	(increase revenue—credit)

At the same time, inventory costing \$2,000 is surrendered by the company. The reduction of any asset is recorded through a credit. The expense resulting from the asset outflow has been identified previously as “cost of goods sold.” Like any expense, it is entered into the accounting system through a debit.

Figure 4.8 Journal Entry 4B: Merchandise Acquired by Customers

Cost of Goods Sold	2,000		(increase an expense—debit)
Inventory		2,000	(decrease an asset—credit)

Question: In the above transaction, the Lawndale Company made a sale but the cash will not be collected until some later date. Why is revenue reported at the time of sale rather than when the cash is eventually collected? Accounting is conservative. Thus, delaying recognition of sales revenue (and the resulting increase in net income) until the \$5,000 is physically received might have been expected.

Answer: This question reflects a common misconception about the information conveyed through financial statements. As shown above in Journal Entry 4A, recognition of revenue is not tied directly to the receipt of cash. One of the most important elements comprising the structure of U.S. GAAP is **accrual accounting**, which serves as the basis for timing the reporting of revenues and expenses. Because of the direct impact on net income, such recognition issues are among the most complicated and controversial in accounting. The accountant must always determine the appropriate point in time for



reporting each revenue and expense. Accrual accounting provides standard guidance (in the United States and throughout much of the world).

Accrual accounting is really made up of two distinct components. The **revenue realization principle** provides authoritative direction as to the proper timing for the recognition of revenue. The **matching principle** establishes guidelines for the reporting of expenses. These two principles have been utilized for decades in the application of U.S. GAAP. Their importance within financial accounting can hardly be overstated.

Revenue realization principle. Revenue is properly recognized at the point that (1) the earning process needed to generate the revenue is substantially complete and (2) the amount eventually to be received can be reasonably estimated. As the study of financial accounting progresses into more complex situations, both of these criteria will require careful analysis and understanding.

Matching principle. Expenses are recognized in the same time period as the revenue they help create. Thus, if specific revenue is to be recognized in the year 2019, any associated costs should be reported as expenses in that same time period. Expenses are matched with revenues. However, when a cost cannot be tied directly to identifiable revenue, matching is not possible. In those cases, the expense is recognized in the most logical time period, in some systematic fashion, or as incurred—depending on the situation.

For the revenue reported in Journal Entry 4A, assuming that the Lawndale Company has substantially completed the work required of this sale and \$5,000 is a reasonable estimate of the amount that will be collected, recognition at the time of sale is appropriate. Because the revenue is recognized at that moment, the related expense (cost of goods sold) should also be recorded as can be seen in Journal Entry 4B.

Accrual accounting provides an excellent example of how U.S. GAAP guides the reporting process in order to produce fairly presented financial statements that can be understood by all decision makers around the world.

EXERCISE



Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092642.html>

KEY TAKEAWAY

After the financial effects are analyzed, the impact of each transaction is recorded within a company's accounting system through a journal entry. The purchase of inventory, payment of a salary, and borrowing of money are all typical transactions that are recorded by means of debits and credits. All journal entries are maintained within the company's journal. The timing of this recognition is especially important in connection with revenues and expenses. Accrual accounting provides formal guidance within U.S. GAAP. Revenues are recognized when the earning process is substantially complete and the amount to be collected can be reasonably estimated. Expenses are recognized based on the matching principle, which holds that they should be reported in the same period as the revenue they help generate.

[1] In larger organizations, similar transactions are often grouped, summed, and recorded together for efficiency. For example, all cash sales at one store might be totaled automatically and recorded at one time at the end of each day. To help focus on the mechanics of the accounting process, the journal entries recorded for the transactions in this textbook will be prepared individually.

[2] The parenthetical information is included here only for clarification purposes and does not appear in a true journal entry.



4.5 The Connection of the Journal and the Ledger

LEARNING OBJECTIVES

At the end of this section, students should be able to meet the following objectives:

1. Prepare journal entries for basic transactions such as the payment of insurance, the acquisition of a long-lived asset, the contribution of capital, the payment of a dividend, and the like.
2. Explain the recording of a gain or loss rather than revenue and cost of goods sold.
3. Describe the recording of an unearned revenue.
4. Understand the purpose of both the journal and the ledger.
5. Discuss the posting of journal entries to the ledger T-accounts and describe the purpose of that process.

Question: The Lawndale Company pays \$700 for insurance coverage received over the past few months. In this case, though, the amount has already been recognized by the company. Both the insurance expense and an insurance payable were recorded as incurred. Thus, the amounts can be seen on the trial balance in. Apparently, Lawndale's accounting system was designed to recognize this particular expense as it grew over time. When an expense has already been recorded, what journal entry is appropriate at the time actual payment is made?

Answer: Because of the previous recognition, the expense should not now be recorded a second time. Instead, this payment reduces the liability that was established by the accounting system. Cash—an asset—is decreased, which is shown by means of a credit. At the same time, the previously recorded payable is removed. Any reduction of a liability is communicated by a debit. To reiterate, no expense is included in this entry because that amount has already been recognized.

Figure 4.9 *Journal Entry 5: Liability for Insurance Is Paid*

Insurance Payable	700		(decrease a liability—debit)
Cash		700	(decrease an asset—credit)

Note that Journal Entries 2 and 5 differ although the events are similar. As discussed previously, specific recording techniques can be influenced by the manner in which the accounting system has handled earlier events. In Journal Entry 2, neither the expense nor the payable had yet been recorded. Thus, the expense was recognized at the time of payment. For Journal Entry 5, both the expense and payable had already been entered into the records as the amount gradually grew over time. Hence, when paid, the liability is settled but no further expense is recognized. The proper amount is already present in the insurance expense T-account.

Question: Assume that a new truck is acquired by the Lawndale Company for \$40,000. Cash of \$10,000 is paid now but a note payable—due in several years—is signed for the remaining \$30,000. This transaction impacts three accounts rather than just two. How is a journal entry constructed when more than two accounts have been affected?

Answer: As has been discussed, every transaction changes at least two accounts because of the cause and effect relationship underlying all financial events. However, beyond that limit, any number of accounts can be impacted. Complex transactions often touch numerous accounts. Here, the truck account (an asset) is increased and must be debited. Part of the acquisition was funded by paying cash (an asset) with the decrease recorded as a credit. The remainder of the cost was covered by signing a note payable (a liability). A liability increase is recorded by means of a credit. Note that the debits do equal the credits even when more than two accounts are affected by a transaction.

Figure 4.10 Journal Entry 6: Truck Acquired for Cash and by Signing a Note

Truck	40,000		(increase an asset—debit)
Cash		10,000	(decrease an asset—credit)
Note Payable		30,000	(increase a liability—credit)

Question: Lawndale Company needs additional financing so officials go to current or potential shareholders and convince them to contribute cash of \$19,000 in exchange for new shares of the company's capital stock. These individuals invest this money in order to join the ownership or increase

the number of shares they already hold. What journal entry does a business record when capital stock is issued?

Answer: The asset cash is increased in this transaction, a change that is always shown as a debit. Capital stock also goes up because new shares are issued to company owners. As indicated in the debit and credit rules, the capital stock account increases by means of a credit.

Figure 4.11 *Journal Entry 7: Capital Stock Issued for Cash*

Cash	19,000		(increase an asset—debit)
Capital Stock		19,000	(increase a capital stock—credit)

EXERCISE

Link to multiple-choice question for practice purposes:
<http://www.quia.com/quiz/2092643.html>

Question: In Journal Entry 4A, a sale was made on credit. An account receivable was established at that time for \$5,000. Assume that the customer now pays this amount to the Lawndale Company. How does the collection of an amount from an earlier sales transaction affect the account balances?

Answer: When a customer makes payment on a previous sale, cash increases and accounts receivable decrease. Both are assets; one balance goes up (by a debit) while the other is reduced (by a credit).

Figure 4.12 *Journal Entry 8: Money Collected on Account*

Cash	5,000		(increase an asset—debit)
Accounts Receivable		5,000	(decrease an asset—credit)

Note that cash is collected here but no additional revenue is recorded. Based on the requirements of accrual accounting, revenue of \$5,000 was recognized previously in Journal Entry 4A. Apparently, the revenue realization principle was met at that time, the earning process was substantially complete and a



reasonable estimation could be made of the amount to be received. Recognizing the revenue again at the current date would incorrectly inflate reported net income. Instead, the previously created receivable balance is removed.

Question: In Journal Entry 1, inventory was purchased on credit for \$2,000. Assume, now, that Lawndale makes payment of the entire amount that is due. How is a cash outflow to pay for inventory previously acquired shown in a company's journal?

Answer: Inventory was bought at an earlier time and payment is now being made. The inventory was properly recorded when acquired and should not be entered again. The merchandise was only obtained that one time. Here, cash is reduced (a credit). The liability set up in Journal Entry 1 (accounts payable) is removed by means of a debit.

Figure 4.13 *Journal Entry 9: Money Paid on Account*

Accounts Payable	2,000		(decrease a liability—debit)
Cash		2,000	(decrease an asset—credit)

Question: Company officials like the building that is being used for operations and decide to rent it for four additional months at a rate of \$1,000 per month. An immediate payment of \$4,000 is made. This cost provides a future economic benefit for the company rather than a past value. Recognition of an expense is not yet appropriate. What is recorded when rent or other costs such as insurance or advertising are paid in advance?

Answer: Cash is decreased by the payment made here to rent this building. As an asset, a reduction is reported in cash by means of a credit. However, this rent provides a future value for Lawndale Company. The cost is not for past usage of the building but rather for the upcoming four months. Therefore, the amount paid creates an asset. The probable economic benefit is the ability to make use of this facility during the future to generate new revenues. When the \$4,000 is initially paid, an asset—normally called prepaid rent—is recorded through a debit.



Figure 4.14 *Journal Entry 10: Money Paid for Future Rent*

Prepaid Rent	4,000		(increase an asset—debit)
Cash		4,000	(decrease an asset—credit)

Note that this company does not record the building itself as the asset because it does not gain ownership or control (beyond these four months). The payment only provides the right to make use of the building for the specified period in the future so that a prepaid rent balance is appropriate.

Before this illustration of typical journal entries is completed, four additional transactions will be examined. In total, these fourteen provide an excellent cross-section of basic events encountered by most businesses and the journal entries created to capture that information. Coming to understand the recording of these transactions is of paramount importance in mastering the debit and credit rules.

Question: Officials of the Lawndale Company decide to buy a small tract of land by paying \$8,000 in cash. Perhaps they think the space might be used sometime in the future as a parking lot. What is recorded to reflect the cash purchase of a plot of land?

Answer: The transaction here is straightforward. As an asset, land increases with a debit. Cash goes down because of the acquisition and is recorded using a credit. As stated previously, Venetian merchants would probably have made the same recording five hundred years ago (although not in U.S. dollars).

Figure 4.15 *Journal Entry 11: Land Acquired for Cash*

Land	8,000		(increase an asset—debit)
Cash		8,000	(decrease an asset—credit)

Question: Now, assume that—at a later time—this same piece of land is sold to an outside party for cash of \$11,000. A sale occurs here but the land is not inventory. It was not bought specifically to be resold within the normal course of business. Selling land is not the primary operation of the Lawndale Company. Should revenue be recorded along with cost of goods sold when land is sold? These accounts



are used in journalizing the sale of inventory. Does the same reporting apply to the sale of other items such as land or equipment?

Answer: Because the sale of land is not viewed as a central portion of this company's operations, neither revenue nor cost of goods sold is reported as in the sale of inventory. An \$11,000 increase in cash is recorded along with the removal of the \$8,000 cost of the land that was conveyed to the new buyer. However, to alert decision makers that a tangential or incidental event has taken place, a gain (if the sales price is more than the cost of the land) or a loss (if the sales price is less than cost) is recognized for the difference. The effect on net income is the same but the reporting has changed.

Often, the resulting gain or loss is then separated from revenues and expenses on the company's income statement to more clearly communicate information as to the nature of the transaction. Consequently, neither revenue nor cost of goods sold is found in the entry below as was shown above in Journal Entries 4A and 4B.

Figure 4.16 Journal Entry 12: Land Sold for Cash in Excess of Cost

Cash	11,000		(increase an asset—debit)
Land		8,000	(decrease an asset—credit)
Gain on Sale of Land		3,000	(increase revenue/gain—credit)

EXERCISE

Link to multiple-choice question for practice purposes:

<http://www.quia.com/quiz/2092628.html>

Question: Accrual accounting, as specified in the revenue realization principle, mandates that revenues should not be recognized until the earning process is substantially complete. Assume a customer gives the Lawndale Company \$3,000 in cash for some type of service to be performed at a future date. The work has not yet begun. Thus, Lawndale cannot report revenue of \$3,000. How is a cash inflow recorded if it is received for work before the earning process is substantially complete?

Answer: Although the company collected money, accrual accounting dictates that revenue cannot yet be recognized. The earning process here will not take place until sometime in the future. As an asset, the cash account is increased (debit) but no revenue can be recorded. Instead, an unearned revenue account is set up to recognize the \$3,000 credit. This balance is reported by the Lawndale Company as a liability. Because the money has been accepted, the company is obliged to provide the service or return the \$3,000 to the customer. Recording this liability mirrors the company's future responsibility.

Figure 4.17 Journal Entry 13: Money Received for Work to Be Done Later

Cash	3,000		(increase an asset—debit)
Unearned Revenue		3,000	(increase a liability—credit)

Here is one final transaction to provide a full range of basic examples at this preliminary stage of coverage. Many additional transactions and their journal entries will be introduced throughout this textbook, but these fourteen form a strong core of typical events encountered by most businesses.

Question: Assume that the Lawndale Company has been profitable. As a result, the board of directors votes to distribute a cash dividend to all owners, a reward that totals \$600. Payment is made immediately. What recording is appropriate when a dividend is paid?

Answer: Cash is reduced by this distribution to the company's owners. As an asset, a credit is appropriate. The cause of the decrease was payment of a dividend. Hence, a dividends paid account is established. According to the debit and credit rules, dividends paid is listed as one of the accounts that increases through a debit. Thus, the recording of this last illustration is as follows.

Figure 4.18 Journal Entry 14: Dividend Distributed to Owners

Dividends Paid	600		(increase dividends paid—debit)
Cash		600	(decrease an asset—credit)



Question: With practice, obtaining an understanding of the rules for debits and credits is a reasonable goal. However, these journal entries do not provide the current balance of any account. They record the effect of each transaction but not the updated account totals, figures that could change many times each day. How does an accountant determine the current balance of cash, inventory, rent expense, or the like?

Answer: In an accounting system, the recording process is composed of two distinct steps.

1. After analyzing the financial impact of a transaction, a journal entry is created to reflect the impact on relevant accounts.
2. Then, each individual debit and credit is added to the specific T-account being altered, a process known as “posting.” A debit to cash in a journal entry is listed as a debit in the cash T-account. A credit made to notes payable is recorded as a credit within the notes payable T-account. After all entries are posted, the current balance for any account can be determined by adding the debit and the credit sides of the T-account and netting the two.

Historically, posting the individual changes shown in each journal entry to the specific T-accounts was a tedious and slow process performed manually. Today, automated systems are designed so that the impact of each entry is simultaneously recorded in the proper T-accounts found in the ledger.

For illustration purposes, the journal entries recorded above have been posted into ledger T-accounts shown in . Each account includes the previous balance (PB) found in the trial balance shown in at the start of the illustrated transactions. The additional debits and credits recorded for each of the fourteen sample transactions include the number of the corresponding journal entry for cross-referencing purposes. The debit and credit sides of each account can be summed and netted at any point to determine the current balance (CB).

Figure 4.19 Lawndale Company Ledger



CASH		ACCOUNTS RECEIVABLE		INVENTORY	
PB 20,000		PB 9,000		PB 8,000	
(3) 9,000	(2) 300	(4A) 5,000	(8) 5,000	(1) 2,000	(4B) 2,000
(7) 19,000	(5) 700				
(8) 5,000	(6) 10,000	<u>14,000</u>	<u>5,000</u>	<u>10,000</u>	<u>2,000</u>
(12) 11,000	(9) 2,000	CB 9,000		CB 8,000	
(13) 3,000	(10) 4,000				
	(11) 8,000				
	(14) 600				
<u>67,000</u>	<u>25,600</u>				
CB 41,400					

PREPAID RENT	TRUCK	LAND
(10) 4,000	(6) 40,000	(11) 8,000
CB 4,000	CB 40,000	(12) 8,000
		<u>8,000</u>
		CB 0

INSURANCE PAYABLE	ACCOUNTS PAYABLE	NOTES PAYABLE
(5) 700	(9) 2,000	
<u>700</u>	<u>2,000</u>	
CB 0	CB 2,600	
		PB 10,000
		(3) 9,000
		(6) 30,000
		<u>CB 49,000</u>

UNEARNED REVENUE
(13) 3,000
CB 3,000

CAPITAL STOCK	RETAINED EARNINGS	DIVIDENDS PAID
PB 12,000	PB 7,000	(14) 600
(7) 19,000	CB 7,000	CB 600
CB 31,000		

SALES OF MERCHANDISE	COST OF GOODS SOLD	RENT EXPENSE
PB 22,000	PB 12,000	PB 3,600
(4A) 5,000	(4B) 2,000	CB 3,600
CB 27,000	CB 14,000	

SALARY EXPENSE	INSURANCE EXPENSE	GAIN ON SALE OF LAND
PB 1,000	PB 700	(12) 3,000
(2) 300	CB 700	CB 3,000
CB 1,300		

KEY TAKEAWAY

Initial coverage of the recording of basic transactions is concluded here through analysis of the payment of insurance, the contribution of capital, the purchase and sale of land, the receipt of cash prior to work being performed, the payment of dividends to owners,



and the like. After the impact of each event is ascertained, debits and credits are used to record these changes. These journal entries are then posted to the appropriate T-accounts used to monitor ever-changing account balances. All the T-accounts are collectively known as a ledger or general ledger. Journal entries document the effect of transactions. T-accounts and the ledger maintain the current balance of every account.

Talking with a Real Investing Pro (Continued)

Following is a continuation of our interview with Kevin G. Burns.

Question: When you were a college student majoring in accounting, you learned all the debit and credit rules as well as about journal entries and the general ledger. In your years as an investment advisor, has this knowledge ever proven to be helpful to you and your career?

Kevin Burns: Although I never planned to be an accountant when I was in college, I found the internal logic of the debit and credit rules quite fascinating. Thinking through transactions and figuring out the proper recording process was a great introduction to business operations. In all honesty, as an investment advisor, I am more interested in asset values and other balance sheet information than the accounting process necessary to gather this information. However, I also happen to own a restaurant and I always find it interesting when I dig through the specific expense accounts looking for ways to be more efficient. For instance, recently when I saw that we had spent a lot of money last year on building maintenance, I could not imagine how that was possible. I dug through the T-account myself and found a recording error that needed to be fixed. My background allowed me to understand the entire process. Frequently, as I study the various debits within our expenses, I am able to spot areas where the restaurant can save money.

4.6 End-of-Chapter Exercises

QUESTIONS

1. What is a transaction?



2. Where was the accounting system developed that is still used by businesses today?
3. What is this system called?
4. What are the four steps followed by accounting systems?
5. By what is financial information accumulated?
6. Define "T-account."
7. Which accounts are increased with a debit?
8. Which accounts are increased with a credit?
9. What is a journal in the accounting sense?
10. What is a trial balance?
11. Accrual accounting is composed of which two principles? Define each.
12. Define "unearned revenue."

TRUE OR FALSE

1. ____ Debits and credits must equal for every transaction.
2. ____ A list of all recorded journal entries is maintained in the ledger.
3. ____ Revenue may not be recorded until cash is collected.
4. ____ A transaction is any event that has a financial impact on a company.
5. ____ An expense account is increased with a credit.
6. ____ Examples of accrued expenses include salary, rent, and interest.
7. ____ Posting refers to process of recording journal entries.
8. ____ A company must recognize an accrued expense as incurred.
9. ____ The matching principle states that expenses should be recognized in the same period as the revenues they help generate.
10. ____ Unearned revenue is a type of revenue account.

11. MULTIPLE CHOICE

1. Which of the following is **not** true about double-entry bookkeeping?
 - a. It originated in Italy.
 - b. Debits and credits must equal.



- c. It is still used today.
- d. An entry can have no more than one credit and one debit.

1. Which of the following entries could Yeats Company not make when they perform a service for a client?

a. Figure 4.20

Accounts Receivable	XXX	
Revenue		XXX

b. Figure 4.21

Cash	XXX	
Revenue		XXX

c. Figure 4.22

Accounts Payable	XXX	
Revenue		XXX

d. Figure 4.23

Cash	XXX	
Accounts Receivable	XXX	
Revenue		XXX

1. Which of the following is a transaction for Tyler Corporation?

- a. Tyler pays its employees \$400 for work done.
- b. Tyler considers renting office space that will cost \$1,500 per month.
- c. Tyler agrees to perform services for a client, which will cost \$7,000.
- d. Tyler places an order for supplies that will be delivered in two weeks. The supplies cost \$200.



1. Elenor Company sells 400 units of inventory for \$40 each. The inventory originally cost Elenor \$26 each. What is Elenor's gross profit on this transaction?

- a. \$16,000
- b. \$10,400
- c. \$ 5,600
- d. \$ 9,600

1. Which of the following increases with a debit?

- a. Retained earnings
- b. Sales revenue
- c. Inventory
- d. Note payable

1. In January, Rollins Company is paid \$500 by a client for work that Rollins will not begin until February. Which of the following is the correct journal entry for Rollins to make when the \$500 is received?

a. Figure 4.24

Cash	500	
Accounts Receivable		500

b. Figure 4.25

Cash	500	
Unearned Revenue		500

c. Figure 4.26

Cash	500	
Revenue		500



d. Figure 4.27

Accounts Receivable	500	
Revenue		500

PROBLEMS

1. Record the following journal entries for Taylor Company for the month of March:

- Borrowed \$4,500 from Local Bank and Trust
- Investors contributed \$10,000 in cash for shares of stock
- Bought inventory costing \$2,000 on credit
- Sold inventory that originally cost \$400 for \$600 on credit
- Purchased a new piece of equipment for \$500 cash
- Collected \$600 in cash from sale of inventory in (d) above
- Paid for inventory purchased in (c) above
- Paid \$1,200 in cash for an insurance policy that covers the next year
- Employees earned \$3,000 during the month but have not yet been paid
- Paid employees \$2,900 for wages earned and recorded during February

1. For each of the following transactions, determine if Raymond Corporation has earned revenue during the month of May and, if so, how much it has earned.

- Customers paid Raymond \$1,500 for work Raymond will perform in June.
- Customers purchased \$6,000 of inventory for which they have not yet paid.
- Raymond performed work for customers and was paid \$3,400 in cash.
- Customers paid Raymond \$2,300 for inventory purchased in April.

1. Record the journal entries for number 2 above.

2. Determine the missing account balance in the following trial balance:

Figure 4.28 Trial Balance—Ester Company

Ester Company Trial Balance 12/31/20XX		
Account Title	Debits	Credits
Cash	\$4,600	
Accounts Receivable	11,000	
Inventory	15,090	
Accounts Payable		\$3,600
Note Payable		13,000
Capital Stock		5,000
Retained Earnings, 1/1/20XX		2,200
Sales Revenue		19,050
Cost of Goods Sold	?????	
Salary Expense	1,500	

3. State which balance, debit, or credit is normally held by the following accounts:

- a. Cash
- b. Dividends
- c. Notes payable
- d. Unearned revenue
- e. Cost of goods sold
- f. Prepaid rent
- g. Accounts receivable
- h. Capital stock

1. Near the end of her freshman year at college, Heather Miller is faced with the decision of whether to get a summer job, go to summer school, or start a summer dress making business. Heather has had some experience designing and sewing and believes it might be the most lucrative of her summer alternatives. She starts "Sew Cool."

During June, the first month of business, the following occur:



- a. Heather deposits \$1,000 of her own money into Sew Cool's checking account.
- b. Sew Cool purchases equipment for \$1,000. The company signs a note payable for this purchase.
- c. Sew Cool purchases \$1,000 in sewing supplies and material in cash.
- d. Sew Cool gives Heather's parents a check for \$80 for rent and utilities.
- e. Heather sews and sells twenty dresses during the month. Each dress has a price of \$60. Cash is received for twelve of the dresses, with customers owing for the remaining eight.
- f. The dresses sold above cost \$35 each to make.
- g. Sew Cool purchases advertising for \$50 cash.
- h. Sew Cool pays Heather a cash dividend of \$10 cash.

- i. Sew Cool's taxes, paid in cash, amount to \$87.
 - a. Prepare journal entries for the above transactions.
 - b. Prepare T-accounts for each account used.
 - c. Prepare a trial balance for June.
 - d.

1. Bowling Corporation had the following transactions occur during February:

- a. Bowling purchased \$450,000 in inventory on credit.
- b. Bowling received \$13,000 in cash from customers for subscriptions that will not begin until the following month.
- c. Bowling signed a note from Midwest Bank for \$67,000.
- d. Bowling sold all the inventory purchased in (a) above for \$700,000 on account.
- e. Bowling paid employees \$120,000 for services performed during January.
- f. Bowling purchased land for \$56,000 in cash.
- g. Bowling received \$650,000 in cash from customers paying off January's accounts receivable.

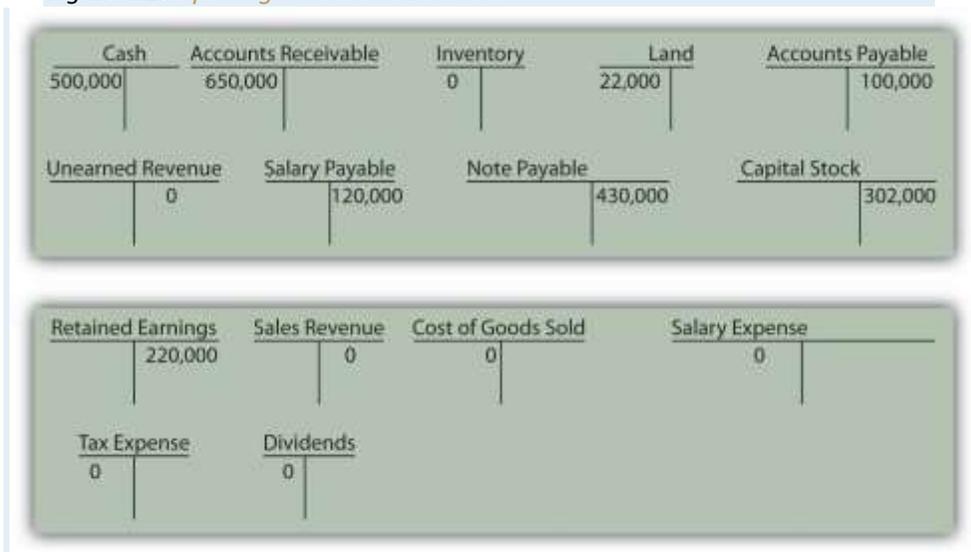


- h. Bowling paid dividends to stockholders in the amount of \$4,000.
- i. Bowling owes its employees \$123,000 for work performed during February but not yet paid.
- j. Bowling paid \$300,000 on its accounts payable.
- k. Bowling paid taxes in cash of \$45,000.

Required:

- a. Prepare journal entries for the above transactions.
- b. Complete the T-accounts below. Numbers already under the accounts represent the prior balance in that account.

Figure 4.29 Opening T-Account Balances



c. Prepare a trial balance for February.

2. The following events occurred during the month of May for McLain Company.

- a. McLain sells 240 units for \$20 each. McLain collects cash for 200 of these units. The units cost McLain \$8 each to purchase.
- b. McLain purchases \$1,800 worth of inventory on account.
- c. McLain collects \$500 in cash on its A/R.
- d. McLain takes out a loan for \$400.
- e. McLain pays out \$350 cash in dividends.
- f. McLain receives a contribution of \$600 from its owners.
- g. McLain purchased a new piece of equipment. The new equipment cost \$1,000 and was paid for in cash.
- h. McLain pays \$500 of its accounts payable.
- i. McLain incurs \$500 in salaries expense, but will not pay workers until next month.
- j. McLain incurs \$300 in rent expense and pays it in cash.
- k. McLain prepays \$200 in cash for insurance.
- l. Taxes, paid in cash, are \$110.

Required:

1. Prepare journal entries for the above transactions.
2. Complete the T-accounts below. Numbers already under the accounts represent the prior balance in that account.

Figure 4.30 Opening T-Account Balances



Cash 500	Accounts Receivable 200	Inventory 150	Prepaid Insurance 0	Equipment 2,000
Accounts Payable 600	Salary Payable 0	Note Payable 0	Capital Stock 1,500	

Retained Earnings 750	Sales Revenue 0	Cost of Goods Sold 0	Salary Expense 0
Rent Expense 0	Tax Expense 0	Dividends 0	

3. Prepare a trial balance for May.