

ACCOUNTING PRINCIPLES

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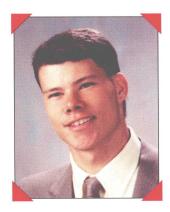
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STUDENT OWNER'S MANUAL

STUDENT TO STUDENT



Hi-

You are about to begin your first accounting class. You may not plan on becoming an accountant, so you may feel that this course will be difficult for you. But it doesn't have to be. Feeling comfortable with the course from the start is the key to success in this beginning accounting course. I'd like to share some tips that I picked up while I took this class and used this text:

- Each chapter contains a lot of information. To retain that information better, try answering the **Before You Go On** questions throughout the chapter. You can really benefit from this if you write your answers on a sheet of paper as you go through the chapter and then at the end of the chapter review your answers. You will have a better understanding about the material you just read.
- Read the Accounting in Action boxes located throughout the chapter. These
 sections can be very helpful because they allow you to see a particular idea
 from a real-world perspective. They also answer the question, "When am I ever
 going to use this stuff?" by providing you with examples of real-world
 accounting applications in many different industries.
- The biggest tip that I can give you really isn't a secret. Do the homework! I know that I sound like your professor right now, but I'm telling you that doing the homework is the difference between passing and failing this course. A good way to approach the exercises and problems at the end of the chapters is to read what is required of you before you begin to read the exercise or problem itself. You will pick up on key parts of the exercises and problems this way.

I took this course because I needed it for my undergraduate business degree. I have taken several upper-level business courses since then, but I occasionally find myself referring to this accounting book for information because this course teaches the fundamentals of accounting. The knowledge you learn here will serve as the foundation for all your other business classes. That is the main reason to take this course seriously and be successful with it.

Good luck!

Gary 7. Hedden

Gary T. Hedden Central Michigan University

HOW TO USE THE STUDY AIDS IN THIS BOOK

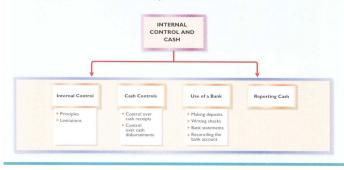
Concepts for Review, listed at the beginning of each chapter from Chapter 2 on, are the accounting concepts you learned in previous chapters that you will need to know in order to understand the topics you Before studying this chapter, you should know or, if necessary, r How cash transactions are journalized in special journals. (Ch. 6, pp. 244–47. 250–52) How postings are made to the cash account from special journals. (Ch. 6, pp. 244–47. 250–52) The phases in developing an accounting system. (Ch. 6, pp. 237–38) are about to cover. Page references are provided if you need to review before reading the chapter. No Free Lunch NEW YORK, NY — At Columbia University, thousands of dollars in cash changes hands between students and dining facility cashiers. Making sure that all of the money received by cashiers gets to where it's supposed to go requires various control measures. In accounting, these measures are called internal control. One control measure used in the cafeteria at Columbia is that the register tape that records the sale and the amount of cash received must reconcile with the amount of cash in the cash drawer at the end of the day. "We see if there are significant overages or shortages at the end of each day for each register," taken," she says, "The says Susan McLaughlin, director of be a variance of more Columbia's dining facilities. Do cash either over or under. differences happen very often? "No, time-or else it indica because the cashier knows that if handling." there are repeated or significant If a student buying INTERNAL CONTROL shortages, disciplinary action will be register sees that a sale AND CASH The Chapter-Opening Vignette is a brief story that helps you picture how the topics of the chapter relate to the real worlds of accounting and business. Throughout the ► STUDY OBJECTIVES ◀ chapter, references to the opening vignette After studying this chapter, you should be able to: will help you put new ideas in context, 1. Define internal control. organize them, and remember them. 2. Identify the principles of internal control. 3. Explain the applications of internal control principles to cash receipts. 4. Describe the applications of internal control principles to cash disbursem 5. Explain the operation of a petty cash fund.6. Indicate the control features of a bank account. Study Objectives appear at the beginning 7. Prepare a bank reconciliation of each chapter to provide you with a 8. Explain the reporting of cash. learning framework. Each study objective then reappears at the point within the chapter where the concept is discussed and each is also summarized at the end of the chapter.

Technology in Action sections, identified by a CD icon, show how computers are one of the most important tools to the accountant and users of accounting information.

PREVIEW OF CHAPTER 7

As the story about the dining facilities at Columbia University indicates, control of cash is important. Similarly, controls are needed to safeguard other types of assets. For example, Columbia University undoubtedly has controls to prevent the theft of food served in the cafeteria and controls to prevent the theft of computer equipment and supplies from its computer laboratories. In this chapter, we explain the essential features of an internal control system

In this chapter, we explain the essential features of an internal control system and then describe how those controls apply to cash. The applications include some controls with which you may be already familiar. Toward the end of the chapter, we describe the use of a bank and explain how cash is reported on the balance sheet. The organization and content of Chapter 7 are as follows:



Use of a Bank 4 303

▶Technology in Action

A malfunctioning computer software program doubled all withdrawals and transfers and a Chemical Bank automatic teller machines (ATMs) in New York state for about 12 hours. The printed record of transactions spit out by the ATM was accurate, but the computerized posting of the transactions was automatically doubled. The bank corrected all errors, which in the aggregate may have been \$15 million.

Source: Denver Post, February 19, 1994.

The incidence of errors depends on the effectiveness of the internal controls maintained by the depositor and the bank. Bank errors are infrequent. However, either party could inadvertently record a \$450 check as \$45 or \$540. In addition, the bank might mistakenly charge a check drawn by C. D. Berg to the account of C. D. Burg.

Reconciliation Procedure

To obtain maximum benefit from a bank reconciliation, the reconciliation should be prepared by an employee who has no other responsibilities pertaining to cash. When the internal control principle of independent internal verification is not followed in preparing the reconciliation, cash embezzlements may escape unnoticed. For example, a cashier who prepares the reconciliation can embezzle cash and conceal the embezzlement by misstating the reconciliation. Thus, the bank accounts would reconcile and the embezzlement would not be detected.

In reconciling the bank account, it is customary to reconcile the balance per books and balance per bank to their adjusted (correct or true) cash balances. The reconciliation schedule is divided into two sections, as shown in Illustration 7-12. The starting point in preparing the reconciliation is to enter the balance per bank statement and balance per books on the schedule. The following steps should reveal all the reconciling items that cause the difference between the two

- 1. Compare the individual deposits on the bank statement with deposits in transit from the preceding bank reconciliation and with the deposits per company records or copies of duplicate deposit slips. Deposits recorded by the depositor that have not been recorded by the bank represent deposits in transit and are added to the balance per bank.
- 2. Compare the paid checks shown on the bank statement or the paid checks returned with the bank statement with (a) checks outstanding from the preceding bank reconciliation and (b) checks issued by the company as recorded in the cash payments journal. Issued checks recorded by the company that have not been paid by the bank represent outstanding checks that are deducted from the balance per the bank.
- ducted from the balance per the bank.

 3. Note any errors discovered in the foregoing steps and list them in the appropriate section of the reconciliation schedule. For example, if a paid check correctly written by the company for \$195 was mistakenly recorded by the company for \$159, the error of \$36 is deducted from the balance per books. All errors made by the depositor are reconciling items in determining the adjusted cash balance per books. In contrast, all errors made by the bank are reconciling items in determining the adjusted cash balance per books.

st employees in the business that you own or manage? ver sometimes is Yes. For example, the financial press lowing:

mall company diverted \$750,000 of bill payments to a nt over a 3-year period.
th 28 years of service shipped \$125,000 of merchandise

r embezzled \$21 million from Wells Fargo Bank over a

porrowed" \$150,000 of church funds to finance a friend's

size the need for a good system of internal control.

concepts being discussed.

Helpful hint Deposits in remait and outstanding checks

Key Terms and concepts are printed in blue where they are first explained in the text and are defined again in the end-of-chapter glossary.

Helpful Hints in the margins help clarify

Accounting in Action boxes give you more glimpses into the real world of accounting by discussing actual challenges faced by accountants. Each type of issuebusiness, ethics, and international—is identified by its own icon. Don't skip over the photos, figures, and tables.

CHAPTER 7 - Internal Control and Cash

►Accounting in Action • Business Insight



As copying machines have become ever more sophisticated, check counterfeiting has flourished. For example, in the second quarter of a recent fiscal year, the Woolworth Corporation had a \$5 million loss from bad checks. Most of the total occurred in the Foot Locker division of the company, a spokesperson said. In the U.S. business community as a whole, some \$10 billion worth of bad checks are written every year.

Checkmate Electronic inc. thinks it has at least a partial answer to this problem. It makes electronic devices that read the magnetic find used to print account and routing numbers on hecks. By identifying the magnetic frequencies as well as the precise shape and size of the numbers, the machine can determine if a check is a fake. Checkmate has a machine small enough to be installed being cast preciser, and it is once in use by well precisely and precise and the control users and the control users are the control of the control o

be installed beside cash registers, and it is now in use by such retailers as J.C. Penney, Neiman-Marcus, and Pier I Imports

Source: Wall Street Journal, March 31, 1994, p. C2; and Business Week, May 23, 1994, p. 9.

A depositor may ask the bank to collect its notes receivable. In such a case, the bank will credit the depositor's account for the cash proceeds of the note, as illustrated on the bank statement by the symbol CM. It will issue a credit memorandum which is sent with the statement to explain the entry. Many banks also offer interest on checking accounts. The interest earned may be indicated on the

with the depositor's name and address. Each check and with both a bank and a depositor identification number computer processing of the transaction.

Many companies have more than one bank accoulations and better control, national retailers like Wal-Mal have regional bank accounts. Similarly, a company such as Exxon with more than 150,000 employees may have a payroll bank account, as well as one or more general bank accounts. In addition, a company may maintain several bank accounts. counts in order to have more than one source for obtaining short-term loans

Making Bank Deposits

Bank deposits should be made by an authorized employee, such as the head cashier. Each deposit must be documented by a deposit slip (ticket), as shown in Illustration 7-9.

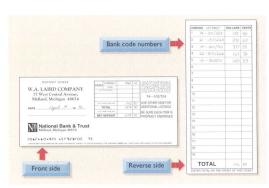


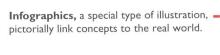
Illustration 7-9

Color Illustrations visually reinforce important concepts and therefore often contain material that may appear on exams.

Deposit slips are prepared in duplicate. The original is retained by the bank; the duplicate, machine stamped by the bank to establish its authenticity, is retained by the depositor.

Internal Control - 289

Independent internal verification is especially useful in comparing recorded accountability with existing assets. The reconciliation of the cash register tape with the cash in the register in the Columbia University dining facility is an example of this internal control principle. Another common example is the reconciliation by an independent person of the cash balance per books with the cash balance per bank. The relationship between this principle and the segregation of duties principle is shown graphically in Illustration 7-3.





Comparison of segregation of duties principle with inde-pendent internal verification , principle

Before You Go On Review It questions

answer these questions, you should go back

serve as a learning check. If you cannot

and read the section again. Brief Do It

exercises help you apply what you are learning; their solutions help you see how

homework exercises.)

the problem should be solved. (Keyed to

CHAPTER 7 - Internal Control and Cash

A petty cash fund should be replenished at the end of the accounting period regardless of the cash in the fund. Replenishment at this time is necessary in order to recognize the effects of the petty cash payments on the financial

Internal control over a petty cash fund is strengthened by (1) having a su-pervisor make surprise counts of the fund to ascertain whether the paid vouchers and fund cash equal the imprest amount and (2) canceling or mutilating the paid vouchers so they cannot be resubmitted for reimbursement.

Before You Go On . . .

Review It

- 1. How do the principles of internal control apply to cash receipts?
- 2. How do the principles of internal control apply to cash disbursements?
- 3. When are entries required in a petty cash system?

L. R. Cortez is concerned about the control over cash receipts in his fast-food restaurant, Big Cheese. The restaurant has two cash registers. At no time do more than two employees take customer orders and ring up sales. Work shifts for employees range from 4 to 8 hours. Cortez asks your help in installing a good system of internal control over cash receipts.

Reasoning: Cortez needs to understand the principles of internal control, especially the principles of establishing responsibility, the use of electronic controls, and independent inter-nal verification. Using this knowledge, an effective system of control over cash receipts can be designed and implemented.

Solution: Cortez should assign a cash register to each employee at the start of each work shift, with register totals set at zero. Each employee should be instructed to use only the assigned register and to ring up all sales. At the end of each work shift, Cortez or a supervisor/manager should total the register and make a cash count to see whether all cash is accounted for

Related exercise material: BE7-3 and E7-2

EASTMAN KODAK COMPANY

Current assets (in millions)

Cash and cash equivalents

Cash equivalents are highly liquid investments, with m Cash equivalents are highly liquid investments, with miless when purchased, that can be converted into a specific include money market funds, money market savings certification of deposit, and U.S. Treasury bills and notes.

A company may have cash that is restricted for a specific produced in the control of the control

sion fund cash for financing new construction. If the res to be used within the next year, the amount should be rep However, when this is not the case, the restricted funds payday for employees, it is reported as a current asset, exceed the payday for employees, it is reported as a current asset, new construction will begin within the next year, plant classified as a noncurrent asset.

In making loans to depositors, it is common for banks to require the bo

rowers to maintain minimum cash balances. These minimum balances, called compensating balances, provide the bank with support for the loans. Compensating balances are a restriction on the use of cash that may affect a company's liquidity. Accordingly, compensating balances should be disclosed in the financial statements.

Before You Go On . . .

Review It

- 1. What is generally reported as cash on a company's balance sheet?
- 2. What is meant by cash equivalents and compensating balances?

► A Look Back at Columbia University

Refer to the opening story about Columbia University, and answer the following questions:

- 1. Does Susan McLaughlin have a valid basis for establishing responsibility for overages
- or shortages? Why or why not?

 2. What internal control principles are applicable to reconciling cash register tapes and the amount of cash in the cash drawer at the end of the day?

 3. What internal control principle is involved in seeing that a student gets a receipt when buying a meal at a register? How does this requirement contribute to good
- 4. Do you think the cashiers are, or should be, bonded?

Solution

- Lestablishing responsibility for overages or shortages is made only at the end of the day. This will provide a valid basis for evaluation only if one person worked the register for the entire day. If more than one person works the register during the day, the single count will not provide a valid basis for establishing who is responsible for the overage or shortage.

 2. Applicable internal control principles are: (a) Segregation of duties—the cashier(s) should not be involved in performing the reconciliation. (b) Documentation proce-

Use of a Bank

STUDY OBJECTIVE6 Indicate the control

features of a bank account.

The use of a bank contributes significantly to good internal control over cash. The use of a bank contributes significantly to good internal control over cash. A company can safeguard its cash by using a bank as a depository and clearing house for checks received and checks written. Use of a bank minimizes the amount of currency that must be kept on hand. In addition, the use of a bank facilitates the control of cash because a double record is maintained of all bank transactions—one by the business and the other by the bank. The asset account, Cash, maintained by the depositor is the reciprocal of the bank's liability account for each depositor. It should be possible to reconcile these accounts (make them agree) at any time. agree) at any time

Opening a bank checking account is a relatively simple procedure. Typically, the bank makes a credit check on the new customer and the depositor is required to sign a signature card. The card should contain the signatures of each person authorized to sign checks on the account. The signature card is used by bank employees to validate signatures on the checks.

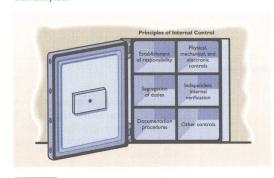
As soon as possible after an account is opened, the bank will provide the depositor with a book of serially numbered checks and deposit slips imprinted

The last Before You Go On exercise takes you back for a critical look at the chapteropening vignette.

Under the Foreign Corrupt Practices Act of 1977, all major U.S. corporations are required to maintain an adequate system of internal control. Companies that fail to comply are subject to fines, and company officers may be imprisoned. Also, the National Commission on Fraudulent Financial Reporting concluded that all companies whose stock is publicly traded should maintain internal controls that can provide reasonable assurance that fraudulent financial reporting will be prevented or subject to early detection.¹

Principles of Internal Control

To safeguard its assets and enhance the accuracy and reliability of its accounting records, a company follows specific control principles. Of course, internal control measures vary with the size and nature of the business and with management's control philosophy. However, the six principles listed in Illustration 7-1 apply to most enterprises:



¹Report of the National Commission on Fraudulent Financial Reporting, October 1987, p. 11.

International note
U.S. companies also adopt
model business codes that
guide their international operations to provide for a safe and
healthy workplace, avoid child
and forced labor, abstain from
bribes, and follow sound environmental practices.

Identify the principles of internal control.

Illustration 7-1

Fundamental to internal control systems is the assumption that employees are honest and ethical and will not commit wrongdoing. As a result, most control measures are more effective in preventing and detecting errors than irregu-

International Notes provide a helpful way of introducing international issues and problems in accounting.

Study Objectives reappear in the margins at each point that the topic is discussed. End-of-chapter exercises and problems are keyed to study objectives.

Ethics Notes help sensitize you to the realworld ethical dilemmas of accounting.

dures—the cash register tape provides the documentation for total receipts for the day. (c) Independent internal verification—a supervisor should perform the reconciliation.

- ciliation.

 3. The internal control principle of documentation procedures is involved. The control does not reside in the receipt itself. For example, there will not be any subsequent reconciliation of cash register receipts with cash at the end of the day. The control is forcing the cashier to ring up each sale so that a receipt is produced. Each receipt is recorded on the cash register tape. At the end of the day, the tape is used in determining overages or shortages.
- recorded on the cash register tape. At the end of the day, the slipe is used in determining overages or shortdages.

 4. If the dining facility has nonstudent employees who work as cashiers, they may be bonded. However, if students work part-time as cashiers, it is doubtful that they are bonded. From the employer's standpoint, bonding is protection against major embezzlements. The risk of this occurring with student help is relatively low.

The **Summary of Study Objectives** relates the chapter summary to the study

objectives located throughout the chapter. It gives you another opportunity to review as well as to see how all the key topics within the chapter are related.

Summary of Study Objectives

- Define internal control. Internal control is the plan of organization and related methods and procedures adopted within a business to safeguard its assets and to enhance the accuracy and reliability of its accounting records.
- Identify the principles of internal control. The principles of internal control are: establishment of responsibility; segregation of duties; documentation procedures; physical, mechanical, and electronic controls; independent internal verification; and other controls.
- 3. Explain the applications of internal control principles to cash receipts. Internal controls over cash receipts include: (a) designating only personnel such as cashiers to handle cash; (b) assigning the duties of receiving cash, recording cash, and custody of cash to different individuals; (c) obtaining remittance advices for mail receipts, cash register tapes for over-the-counter receipts, and deposit slips for bank deposits; (d) using company safes and bank vaults to store cash with access limited to authorized personnel, and using cash registers in executing over-the-counter receipts; (e) making independent daily counts of register receipts and daily comparisons of total receipts with total deposits; and (f) bonding personnel that handle cash and requiring them to take vacations.
- 4. Describe the applications of internal control principles to cash disbursements. Internal controls over cash disbursements include (a) having only specified individuals such as the treasurer authorized to sign checks; (b) assigning the duties of approving items for payment, paying the items, and recording the payment to different individuals;(c) using

prenumbered checks and accounting for all checks, with each check supported by an approved invoice; (d) storing blank checks in a safe or vault with access restricted to authorized personnel, and using a checkwriter to imprint amounts on checks; (e) comparing each check with the approved invoice before issuing the check, and making monthly reconciliations of bank and book balances; and (f) after payment, stamping each approved invoice "paid."

- 5. Explain the operation of a petty cash fund. In operating a petty cash fund, it is necessary to establish the fund, make payments from the fund, and replenish the fund.
- 6. Indicate the control features of a bank account. A bank account contributes to good internal control by providing physical controls for the storage of cash, minimizing the amount of currency that must be kept on hand, and creating a double record of a depositor's bank transactions.
- 7. Prepare a bank reconciliation. In reconciling the bank account, it is customary to reconcile the balance per books and balance per bank to their adjusted balances. The steps in determining the reconciling items are to ascertain deposits in transit, outstanding checks, errors by the depositor or the bank, and unrecorded bank memoranda.
- 8. Explain the reporting of cash. Cash is listed first in the current assets section of the balance sheet. In some cases, cash is reported together with cash equivalents. Cash restricted for a special purpose is reported separately as a current asset or as a noncurrent asset depending on when the cash is expected to be used.

The **Glossary** defines all the terms and concepts introduced in the chapter.

GLOSSARY

Bank service charge A fee charged by a bank for the use Ga of its services. (p. 301).

Bank statement A statement received monthly from the bank that shows the depositor's bank transactions and balances. (p. 300).

Cash Resources that consist of coins, currency, checks, money orders, and money on hand or on deposit in a bank or similar depository. (p. 291).

Cash equivalents Highly liquid investments, with matur-

End-of-Chapter Appendices address topics considered optional by some instructors.

PPENDIX - Alternative Treatment of Prepaid Expenses and Unearned Revenues

In our discussion of adjusting entries for prepaid expenses and unearned revenues, we illustrated transactions for which the initial entries were made to balance sheet accounts. That is, in the case of prepaid expenses, the prepayment was debited to an asset account, and in the case of unearned revenue, the cash received was credited to a liability account. Some businesses use an alternative received was credited to a hability account. Some businesses use an alternative treatment: (1) At the time an expense is prepaid, it is debited to an expense account; (2) at the time of a receipt for future services, it is credited to a revenue account. The circumstances that justify such entries and the different adjusting entries that may be required are described below. The alternative treatment of prepaid expenses and unearmed revenues has the same effect on the financial statements as the procedures described in the chapter.

STUDY OBJECTIVE

After studying this appendix, you should be able to:

9. Prepare adjusting entries for the alternative treatment of prepayments.

DEMONSTRATION PROBLEM •

Trillo Company's bank statement for May 1996 shows the following data

\$12,650 Balance 5/31 Debit memorandum: Credit memorandum \$ 175 Collection of note receivable \$ 505 NSF check The cash balance per books at May 31 is \$13,319. Your review of the data reveals the following:

1. The NSF check was from Hup Co., a customer.

- The note collected by the bank was a \$500, three-month, 12% note. The bank charged a \$10 collection fee. No interest has been accrued.
- 3. Outstanding checks at May 31 total \$2,410.
- 4. Deposits in transit at May 31 total \$1,752.
- A Trillo Company check for \$352 dated May 10 cleared the bank on May 25. This
 check, which was a payment on account, was journalized for \$325.

(a) Prepare a bank reconciliation at May 31.(b) Journalize the entries required by the reconciliation.

Solution to Demonstration Problem

(a)	TRILLO COMPANY Bank Reconciliation May 31, 1996	
Cash balance per bank statem Add: Deposits in transit	ent	\$14,280 1,752
Less: Outstanding checks		16,032 2,410
Adjusted cash balance per bar	nk	\$13,622
Cash balance per books		\$13,319
Add: Collection of note receiv collection fee \$10	rable \$500, plus \$15 interest less	505
		12 924

Problem-Solving Strategies

- I. Follow the four steps used in reconciling items (pp. 303–4).
- 2. Work carefully to minimize mathematical errors in the reconciliation
- reconciliation.

 3. All entries are based on reconciling items per books.

 4. Make sure the cash ledger balance after posting the reconciling entries agrees with the adjusted cash balance per books.

Demonstration Problems are the final step before you begin homework. These sample problems provide you with Problem-Solving Strategies and Solutions.

	\$175	
heck	27	202
r books		\$13,622
	505	
Expense	10	
able		500
nue		15
collection of note by bank)		
vable—Hup Co.	175	
		175
NSF check from Hup Co.)		
ole	27	
		27
error in recording check)		

Self-Study Questions are a practice test, keyed to Study Objectives, that gives you an opportunity to check your knowledge of important topics. Answers appear on the last page of the chapter.

$oldsymbol{S}$ ELF-STUDY QUESTIONS

Answers are at the end of the chapter.

- 1. Internal control is used in a business to enhance the accuracy and reliability of its accounting records and to
 - a. safeguard its assets.
 b. prevent fraud.
 c. produce correct financial statements.

 - d. deter employee dishonesty.
 - The principles of internal control do not include:
 a. establishment of responsibility.
 - b. documentation procedures.
 c. management responsibility.
 d. independent internal verification.
- (SO 2) 3. Physical controls do not include:
- a. safes and vaults to store cash.
 b. independent bank reconciliations.
 c. locked warehouses for inventories.
 d. bank safety deposit boxes for important papers.
- (SO 3) 4. Which of the following items in a cash drawer at November 30 is not cash? a. Money orders.

 - b. Coins and currency.
 c. A customer check dated December 1.
 d. A customer check dated November 28.
- (50 3) 5. Permitting only designated personnel such as cashiers to handle cash receipts is an application of the principle of:

 a. segregation of duties.
 b. establishment of responsibility.
 c. independent check.
 d. other controls.

 - 6. The use of prenumbered checks in disbursing cash

 - The use of prenumbered checks in disbursing cas is an application of the principle of:

 a. establishment of responsibility.
 b. segregation of duties.
 c. physical, mechanical, and electronic controls.
 d. documentation procedures.

- 7. A check is written to replenish a \$100 petty cash A check is written to replemish a \$100 petty cash fund when the fund contains receipts of \$94 and \$3 in cash. In recording the check,
 a. Cash Over and Short should be debited for \$3.
 b. Petty Cash should be debited for \$94.
 c. Cash should be credited for \$94.
 d. Petty Cash should be credited for \$3.

.....

- 8. The control features of a bank account do not (SO 6)
- a. having bank auditors verify the correctness of
- a. having bank auditors verify the correctness of the bank balance per books.
 b. minimizing the amount of cash that must be kept on hand.
 c. providing a double record of all bank transactions.
- d. safeguarding cash by using a bank as a depos-
- 9. In a bank reconciliation, deposits in transit are:
 - a. deducted from the book balance.
 b. added to the book balance
 c. added to the bank balance.
 d. deducted from the bank balance.
- 10. The reconciling item in a bank reconciliation that will result in an adjusting entry by the depositor
 - a. outstanding checks b. deposit in transit.
 - a bank error
- d. bank service charges
- 11. The statement that correctly describes the report- (SO 8) ing of cash is: a. Cash cannot be combined with cash equiva-

 - b. Restricted cash funds may be combined with
 - Cash is listed first in the current asset section d. Restricted cash funds cannot be reported as a current asset.

Brief Exercises 4 311

Questions allow you to explain your understanding of concepts and relationships covered in the chapter.

- 3. In the corner grocery store, all sales clerks make change out of one cash register drawer. Is this a violation of internal control? Why?
- 4. J. Duma is reviewing the principle of segregation of duties. What are the two common applications of this principle?
- 5. How do documentation procedures contribute to good internal control?
- 6. What internal control objectives are met by physical, mechanical, and electronic controls?
- (a) Explain the control principle of independent internal verification. (b) What practices are important in applying this principle?
- The management of Cobo Company asks you, as the company accountant, to explain (a) the concept of reasonable assurance in internal control and (b) the importance of the human factor in internal
- 9. Midwest Inc. owns the following assets at the balance sheet date

Cash in bank-savings account	\$ 5,000
Cash on hand	850
Cash refund due from the IRS	1,000
Checking account balance	12,000
Postdated checks	500

What amount should be reported as cash in the balance sheet?

- 10. What principle(s) of internal control is (are) in-volved in making daily cash counts of over-the-counter receipts?
- 11. Dent Department Stores has just installed new electronic cash registers in its stores. How do cash registers improve internal control over cash receipts?
- In Allen Wholesale Company, two mail clerks open all mail receipts. How does this strengthen internal control?

- QUESTIONS "Internal control is concerned only with enhancing the accuracy of the accounting records." Do you agree? Explain.
 "To have maximum effective internal control over cash disbursements, all payments should be made by check." Is this true! Explain.
- What principles of internal control apply to most business enterprises?

 14. Handy Company's internal controls over cash disbusiness enterprises?

 15. Handy Company's internal controls over cash disbusiness enterprises? imprinted by a checkwriter after comparing the check with the approved invoice. Identify the in-ternal control principles that are present in these controls.
 - 15. How do the principles of (a) physical, mechanical, and electronic controls and (b) other controls apply to cash disbursements?
 - 16. (a) What is a voucher system? (b) What principles of internal control apply to a voucher system?
 - 17. What is the essential feature of an electronic funds transfer (EFT) procedure?
 - (B) (b) the service activities that pertain to a petty cash fund, and indicate an internal control principle that is applicable to each activity. (b) When are journal entries required in the operation of a petty cash fund?
 - "The use of a bank contributes significantly to good internal control over cash." Is this true? Why?
 - 20. Paul Pascal is confused about the lack of agreement between the cash balance per books and the balance per the bank. Explain the causes for the lack of agreement to Paul, and give an example of each cause.
 - 21. What are the four steps involved in finding differences between the balance per books and balance per banks?
 - Mary Mora asks your help concerning an NSF check. Explain to Mary (a) what an NSF check is, (b) how it is treated in a bank reconciliation, and (c) whether it will require an adjusting entry per bank.
 - 23. (a) "Cash equivalents are the same as cash." Do you agree? Explain. (b) How should restricted cash funds be reported on the balance sheet?

Brief Exercises help you focus on one Study Objective at a time and thus help you build confidence in your basic skills and knowledge. (Keyed to Study Objectives.)

Brief exercises BE7-1 Gina Milan is the new owner of Liberty Parking. She has heard about internal control but is not clear about its importance for her business. Explain to Gina the two purposes of internal control and give her one application of each purpose for Liberty Parking.

BE7-2 The internal control procedures in Marion Company provide that:

(a) Employees who have physical custody of assets do not have access to the accounting records.

Explain the importance of internal control.

Identify internal control

Exercises —

Identify the principles of internal control.

E7-1 Joe Marino is the owner of Marino's Pizza. Marino's is operated strictly on a carryout basis. Customers pick up their orders at a counter where a clerk exchanges the pizza for cash. While at the counter, the customer can see other employees making the pizzas and the large ovens in which the pizzas are baked.

Instructions
Identify the six principles of internal control and give an example of each principle that you might observe when picking up your pizza. (Note: It may not be possible to observe all the

Exercises, which gradually increase in skills, understanding, and time necessary to complete them, help you continue to build your confidence. (Keyed to Study Objectives.)

Certain exercises or problems marked with an icon help you practice business writing skills.

improvement.

E7-5 Ramona Company uses an imprest petty cash system. The fund was established on March 1 with a balance of \$100. During March the following petty cash receipts were found in the petty cash box:

Date	Receipt No.	For	Amount
3/5	1	Stamp Inventory	\$38
7	2	Freight-in	19
9	3	Miscellaneous Expense	12
11	4	Travel Expense	24
14	5	Miscellaneous Expense	5

There was no cash over or short. The fund was replenished on March 15. On March 20, the amount in the fund was increased to \$150.

(a) Prepare the bank reconciliation at September 30.

(b) Prepare the adjusting entries at September 30, assuming (1) the NSF check was from a customer on account, and (2) no interest had been accrued on the note.

E7-10 The cash records of Kuwait Company show the following:

- 1. The June 30 bank reconciliation indicated that deposits in transit total \$850. During July the general ledger account Cash shows deposits of \$15,750, but the bank statement indicates that only \$15,600 in deposits were received during the month.
 2. The June 30 bank reconciliation also reported outstanding checks of \$920. During the month of July, Kuwait Company books show that \$17,200 of checks were issued, yet the bank statement showed that \$16,400 of checks cleared the bank in July.
- In September, deposits per the bank statement totaled \$26,700, deposits per books were \$25,400, and deposits in transit at September 30 were \$2,400.
 In September, cash disbursements per books were \$23,700, checks clearing the bank were \$25,000, and outstanding checks at September 30 were \$2,100.

There were no bank debit or credit memoranda, and no errors were made by either the bank or Kuwait Company.

Instructions

Answer the following questions:

- (a) In situation (1), what were the deposits in transit at July 31
- (d) In situation (2), what were the outstanding checks at July 31? (c) In situation (3), what were the deposits in transit at August 31? (d) In situation (4), what were the outstanding checks at August 31?

P7-1 Red River Theater is located in the Red River Mall. A cashier's booth is located near PP-1 Red River Theater is located in the Red River Mall. A cashier's booth is located near the entrance to the theater. Two cashiers are employed. One works from 1-5 P.M., the other from 5-9 P.M. Each cashier is bonded. The cashiers receive cash from customers and operate a machine that ejects serially numbered tickets. The rolls of tickets are inserted and locked into the machine by the theater manager at the beginning of each cashier's shift.

After purchasing a ticket, the customer takes the ticket to a doorperson stationed at the entrance of the theater lobby some 60 feet from the cashier's booth. The doorperson tears the

entrance of the theater lobby some 60 feet from the cashier's booth. The doorperson tears the ticket in half, admits the customer, and returns the ticket stu to the customer. The other half of the ticket is dropped into a locked box by the doorperson.

At the end of each cashier's shift, the theater manager removes the ticket rolls from the machine and makes a cash count. The cash count shee is initialed by the cashier. At the end of the day, the manager deposits the receipts in total in a bank night deposit vault located in the mall. In addition, the manager sends copies of the deposit slip and the initialed cash count sheets to the theater company treasurer for verification and to the company's accounting department. Receipts from the first shift are stored in a safe located in the manager's office.

- (a) Identify the internal control principles and their application to the cash receipts transactions of the Red River Theater.

 (b) If the doorperson and cashier decide to collaborate to misappropriate cash, what actions might they take?

P7-2 MTR Company maintains a petty cash fund for small expenditures. The following transactions occurred over a 2-month period:

July 1 Established petty cash fund by writing a check on Metro Bank for \$200.

- Replenished the petty cash fund by writing a check for \$194.30. On this date the fund consisted of \$5.70 in cash and the following petty cash receipts: Freight-in \$94.00, postage expense \$42.40, entertainment expense \$46.60, and miscellaneous expense \$10.70.
- 31 Replenished the petty cash fund by writing a check for \$192.00. At this date, the fund consisted of \$8.00 in cash and the following petty cash receipts: Freight-in

Compute deposits in transit and outstanding checks for two bank reconciliations.

Problems 4 315

Each Problem helps you pull together and apply several concepts of the chapter. Included in these are problems that help you develop the writing skills that are so important in business. (Keyed to multiple Study Objectives.)

Identify internal control

General Ledger Problems, identified by

are selected problems that can an icon be solved using the General Ledger Software package.

Paired with the Problems, Alternate Problems provide additional opportunities to apply concepts learned in the chapter. (Each Alternate Problem is keyed to the same Study Objectives as its counterpart in the Problems set.)

Spreadsheet Problems identified by an

are selected exercises and problems that can be solved using Solving Principles of Accounting Problems Using Lotus 1-2-3 or Excel.

CHAPTER 5 - Accounting for Merchandising Operation

repare correct multiple-step and single-step income statements (SO 5, 7),

P5-5A A part-time bookkeeper prepared the following income statement for the Tao Company for the year ending December 31, 1996. TAO COMPANY December 31, 1996

A	89 4.
4	
B	2
13	94

Revenues		
Sales		\$702,000
Less: Freight-in Discounts	\$ 17,200 4,100	21,300
Net sales Other revenues (net)		680,700 1,300
Total revenues		682,000
Expenses		
Purchases	470,000	
Selling expenses	100,000	
Administrative expenses	50,000	
L. Tao, Drawings	12,000	
Total expenses		632,000
Net income		\$ 50,000

As an experienced, knowledgeable accountant you review the statement and determine the

- Sales includes \$10,000 of deposits from customers for future sales orders
 Discounts consist of purchase discounts consist of purchase discounts.
- unts consist of purchase discounts earned \$7,200 and sales discounts granted
- 2. Discounts consist or purchase discounts earned \$7,200 and sales discounts grant \$11,300.

 3. Other revenues contains two items: interest expense \$4,000 and interest revenue \$5,300.
- 4. Purchases includes freight-out \$14,000 less purchase returns and allowances \$9,000.
 5. Ending merchandise inventory increased \$20,000 from a beginning inventory of
- Selling expenses consist of sales salaries \$76,000, advertising \$10,000, depreciation on store equipment \$7,500, and sales commissions expense \$6,500.
- Seuing expenses consist of sales salaries \$76,000, advertising \$10,000, depreciation on store equipment \$7,500, and sales commissions expense \$6,500.
 Administrative expenses consist of office salaries \$19,000, utilities expense \$8,000, rent expense \$16,000, and insurance expense \$7,000. Insurance expense includes \$1,200 of insurance applicable to 1994.

CHAPTER 7 - Internal Control and Cash

Broadening Your Perspective

FINANCIAL REPORTING PROBLEM

The financial statements of PepsiCo, Inc. are presented in Appendix A of this textbook to-gether with two reports: (1) a management report, Management's Responsibility for Financial Statements, and (2) an auditor's report, Report of Independent Auditors.

Using the financial statements and reports, answer the following questions about PepsiCo's internal controls and cash.

- 1. What comments, if any, concerning the company's system of internal control are in-
- 2. What comments, any, concerning the company's system on internal control are a cluded in each report?

 2. What reference, if any, is made to internal auditors in each report?

 3. What comments, if any, are made about cash in the report of the independent auditors?

 4. What data about cash and cash equivalents are shown in the consolidated balance.
- 5. What activities are identified in the consolidated statement of cash flows as being re-
- S. What activities are learning in the Consoniated statement of Lash flows as be sponsible for the changes in cash during 1994?
 How are cash equivalents defined under the Notes to Consolidated Financial Statements?

DECISION CASE The board of trustees of a local church is concerned about the internal accounting controls pertaining to the offering collections made at weekly services. They ask you to serve on a three-person audit team with the internal auditor of the university and a CPA who has just joined the church.

At a meeting of the audit team and the board of trustees you learn the following:

- The church's board of trustees has delegated responsibility for the financial management and audit of the financial records to the finance committee. This group pre-
- 1. The church's board of trustees has delegated responsibility for the financial management and audit of the financial records to the finance committee. This group prepares the annual budget and approves major disbursements but is not involved in collections or record keeping. No audit has been made in recent years because the same trusted employee has kept church records and served as financial secretary for 15 years. The church does not carry any fidelity insurance.

 2. The collection at the weekly service is taken by a team of ushers who volunteer to serve one month. The ushers take the collection plates to a basement office at the rear of the church. They hand their plates to the head usher counts the cash received. The head usher they places the cash in the church safe along with a notation of the amount counted. The head usher volunteers to serve for 3 months.

 3. The next morning the financial secretary opens the safe and recounts the collection. The secretary withholds \$150–\$200 in cash, depending on the cash expenditures expected for the week, and deposits the remainder of the collections in the bank. To facilitate the deposit, church members who contribute by check are asked to make their checks payable to "cash."

 4. Each month, the financial secretary reconciles the bank statement and submits a copy of the reconciliation to the board of trustees. The reconciliations have rarely contained any bank errors and have never shown any errors per books.

 structions

(a) Indicate the weaknesses in internal accounting control over the handling of collections.

The Broadening Your Perspective section helps you pull together various concepts covered in the chapter and apply them to real-life business decisions.

A Financial Reporting Case familiarizes you with the format, content, and uses of financial statements prepared by major U.S. companies.

A Decision Case helps you build your decision-making skills by analyzing accounting information in a less structured situation. At the same time it provides practice in your writing skills.

Communication Activities ask you to engage in real-life business situations using your writing, speaking, or presentation skills.

Group Activities prepare you for the business world, where you will be working with many people, by giving you practice in solving problems with colleagues.

(b) List the improvements in internal control procedures that you plan to make at the next meeting of the audit team for (1) the ushers, (2) the head usher, (3) the finan-

cial secretary, and (4) the finance committee.

(c) What church policies should be changed to improve internal control?

Communication activity

As a new auditor for the CPA firm of Rawls, Keoto, and Landry you have been assigned to review the internal controls over mail cash receipts of Adirondack Company, Your review reveals the following: Checks are promptly endorsed "For Deposit Only," but no list of the checks is prepared by the person opening the mail. The mail is opened either by the cashier or by the employee who maintains the accounts receivable records. Mail receipts are deposited in the bank weekly by the cashier.

Instructions
Write a letter to L. S. Osman, owner of the Adirondack Company, explaining the weaknesses in internal control and your recommendations for improving the system.

GROUP ACTIVITY

From your employment or personal experiences, identify situations in which cash was re-

Instructions
In groups of five or six students

(a) Identify the internal control principles used for cash receipts.
 (b) Identify the internal control principles used for cash disbursements.
 (c) Identify any weaknesses in internal control related to cash receipts and disburse-

Critical Thinking Case 4 323

Through the Ethics Cases you will reflect on ethical situations an accountant typically confronts.

ETHICS CASE You are the assistant controller in charge of general ledger accounting at Lemon Twist Bottling Company. Your company has a large loan from an insurance company. The loan agreement requires that the company's cash account balance be maintained at \$200,000 or more as reported monthly. At June 30 the cash balance is \$800,000, which you report to Sam Williams, the financial vice-president. Sam excitedly instructs you to keep the cash receipts book open for one additional day for purposes of the June 30 report to the insurance company. Sam says, "If we don't get that cash balance over \$200,000, we'll default on our loan agreement. They could close us down, put us all out of our jobs!" Sam continues, "I talked to Grochum Distributors (one of Lemon Twist's largest customers) this morning and they said they sent us a check for \$150,000 yesterday. We should receive it tomorrow. If we include just that one check in our cash balance, we'll be in the clear. It's in the mail!"

- Structions

 (a) Who will suffer negative effects if you do not comply with Sam Williams' instructions? Who will suffer if you do comply?

 (b) What are the ethical considerations in this case?

 (c) What alternatives do you have?

CHAPTER 7 - Internal Control and Cash

AN CRITICAL THINKING CASE

► A Real-World Focus: Alternative Distributor Corp.

Alternative Distributor Corp., a distributor of groceries and related products, is headquartered in Medford, Massachusetts. It was founded in 1980 and today has seven employees, with a total sales of \$7 million.

During its audit, the Alternative Distributor Corp. was advised that previously existing internal controls necessary for the company to develop reliable financial statements were inadequate. The audit report stated that the current system of accounting for sales, receivables, and cash receipts constituted a material weakness.

Among other items, the report focused on non-timely deposit of cash receipts, exposing Alternative Distributor to potential loss or misappropriation; excessive past due accounts receivable due to lack of collection efforts; disregard of advantages offered by vendors for prompt payment of invoices; absence of appropriate segregation of duties by personnel consistent with appropriate control objectives; inadequate procedures for applying accounting principles; lack of qualified management personnel; lack of supervision by an outside board of directors; and overall poor recordkeeping.

Instructions
Identify the principles of internal control violated by Alternative Distributor Corporation.

Answers to Self-Study Questions 6. d 7. a 9. c 10. d 11. c Critical Thinking: A Real-World Focus asks you to decide how to apply the concepts you have learned to specific situations faced by actual companies.

Answers to Self-Study Questions provide feedback on your understanding of concepts.

HOW DO YOU LEARN BEST?

Now that you have looked at your Owner's Manual, take time to find out how you learn best. This quiz was designed to help you find out something about your preferred learning method. Research on left brain/right brain differences and also on learning and personality differences suggests that each person has preferred ways to receive and communicate information. After taking the

quiz, we will help you pinpoint the study aids in this text that will help you learn the material based on your learning style.

Circle the letter of the answer that best explains your preference. If a single answer does not match your perception, please circle two or more choices. Leave blank any question that does not apply.

- 1. You are about to give directions to a person. She is staying in a hotel in town and wants to visit your house. She has a rental car. Would you
 - V) draw a map on paper?
 - R) write down the directions (without a map)?
 - A) tell her the directions?
 - K) pick her up at the hotel in your car?
- 2. You are staying in a hotel and have a rental car. You would like to visit friends whose address/location you do not know. Would you like them to
 - V) draw you a map on paper?
 - R) write down the directions (without a map)?
 - A) tell you the directions by phone?
 - K) pick you up at the hotel in their car?
- **3.** You have just received a copy of your itinerary for a world trip. This is of interest to a friend. Would you
 - A) call her immediately and tell her about it?
 - R) send her a copy of the printed itinerary?
 - V) show her on a map of the world?
- 4. You are going to cook a dessert as a special treat for your family. Do you
 - K) cook something familiar without need for instructions?
 - V) thumb through the cookbook looking for ideas from the pictures?
 - R) refer to a specific cookbook where there is a good recipe?
 - A) ask for advice from others?
- 5. A group of tourists has been assigned to you to find out about national parks. Would you
 - K) drive them to a national park?
 - R) give them a book on national parks?
 - V) show them slides and photographs?
 - A) give them a talk on national parks?
- **6.** You are about to purchase a new stereo. Other than price, what would most influence your decision?
 - A) A friend talking about it.
 - K) Listening to it.
 - R) Reading the details about it.
 - V) Its distinctive, upscale appearance.
- 7. Recall a time in your life when you learned how to do something like playing a new board game. (Try to avoid choosing a very physical skill, e.g., riding a bike.) How did you learn best? By

- V) visual clues—pictures, diagrams, charts?
- A) listening to somebody explaining it?
- R) written instructions?
- K) doing it?
- 8. Which of these games do you prefer?
 - V) Pictionary
 - R) Scrabble
 - K) Charades
- 9. You are about to learn to use a new program on a computer. Would you
 - K) ask a friend to show you?
 - R) read the manual that comes with the program?
 - A) telephone a friend and ask questions about it?
- 10. You are not sure whether a word should be spelled "dependent" or "dependant." Do you
 - R) look it up in the dictionary?
 - V) see the word in your mind and choose the best way it looks?
 - A) sound it out in your mind?
 - K) write both versions down?
- **11.** Apart from price, what would most influence your decision to buy a particular textbook?
 - K) Using a friend's copy.
 - R) Skimming parts of it.
 - A) A friend talking about it.
 - V) It looks OK.
- 12. A new movie has arrived in town. What would most influence your decision to go or not to go?
 - A) Friends talked about it.
 - R) You read a review of it.
 - V) You saw a preview of it.
- 13. Do you prefer a lecturer/teacher who likes to use
 - R) handouts and/or a textbook?
 - V) flow diagrams, charts, slides?
 - K) field trips, labs, practical sessions?
 - A) discussion, guest speakers?

Results: To determine your learning preference, add up the number of individual Vs, As, Rs, and Ks you have circled. Take the letter you have the greatest number of and match it to the same letter in the Learning Styles Chart. Next to each letter in the Chart are suggestions that will refer you to different learning aids throughout this text.

LEARNING STYLES CHART

TYPE	WHAT TO DO IN CLASS	WHAT TO DO WHEN STUDYING	TEXT FEATURES THAT MAY HELP YOU THE MOST	WHAT TO DO PRIOR TO AND DURING EXAMS
O VISUAL	Underline. Use different colors. Use symbols, charts, arrangements on the page.	Use the "In Class" strategies. Reconstruct images in different ways. Redraw pages from memory. Replace words with symbols and initials.	Preview Infographics/ Illustrations Photos Accounting in Action Technology in Action Key Terms in blue Words in bold Questions/Exercises/ Problems Financial Reporting Problem	Recall the "pictures of the pages." Draw, use diagrams where appropriate. Practice turning visuals back into words.

TYPE	WHAT TO DO IN CLASS	WHAT TO DO WHEN STUDYING	TEXT FEATURES THAT MAY HELP YOU THE MOST	WHAT TO DO PRIOR TO AND DURING EXAMS
AURAL	Attend lectures and tutorials. Discuss topics with students. Explain new ideas to other people. Use a tape recorder. Describe overheads, pictures, and visuals to somebody not there. Leave space in your notes for later recall.	You may take poor notes because you prefer to listen. Therefore: Expand your notes. Put summarized notes on tape and listen. Read summarized notes out loud. Explain notes to another "aural" person.	Infographics/Illustrations Accounting in Action Technology in Action Review It/Do It Summary of Study Objectives Glossary Demonstration Problem Self-Study Questions Questions/Exercises/ Problems Financial Reporting Problem Decision Case Communication Activity Group Activity	Listen to your "voices" and write them down. Speak your answers. Practice writing answers to old exam questions.
9			Ethics Case Critical Thinking Videos	

Source: Adapted from Neil D. Fleming and Colleen Mills, "Not Another Inventory, Rather a Catalyst for Reflections," To Improve the Academy, Volume II (1992), pp. 137-155. Used by permission.

TYPE	WHAT TO DO IN CLASS	WHAT TO DO WHEN STUDYING	TEXT FEATURES THAT MAY HELP YOU THE MOST	WHAT TO DO PRIOR TO AND DURING EXAMS
KINE STHETIC	Use all your senses. Go to labs, take field trips. Use trial-and-error methods. Listen to real-life examples. Use hands-on approach.	You may take notes poorly because topics do not seem relevant. Therefore: Put examples in note summaries. Use pictures and photos to illustrate. Talk about notes with another "kinesthetic" person.	Concepts for Review Vignettes Preview Infographics/Illustrations Review It/Do It A Look Back at Summary of Study Objectives Demonstration Problem Self-Study Questions Questions/Exercises/ Problems Financial Reporting Problem Decision Case Communication Activity Group Activity	Write practice answers. Role-play the exam situation.