

FINANCIAL & MANAGERIAL ACCOUNTING

Information for Decisions



Financial and Managerial Accounting

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INFORMATION FOR DECISIONS



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To my students and family, especially **Kimberly, Jonathan, Stephanie,** and **Trevor.**To my wife **Linda** and children **Erin, Emily,** and **Jacob.**To my mother, husband **Bob,** and sons **Michael** and **David.**

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Adapting to Today's Students

Whether the goal is to become an accountant, a businessperson, or simply an informed consumer of accounting information, *Financial and Managerial Accounting* has helped generations of students succeed. Its leading-edge accounting content, paired with state-of-the-art technology, supports student learning and elevates understanding of key accounting principles.

This book excels at engaging students with content that shows the relevance of accounting. Its chapter-opening vignettes showcase dynamic entrepreneurial companies to highlight the usefulness of accounting. This edition's featured companies—Apple, Google, and Samsung—capture student interest, and their annual reports are a pathway for learning. Need-to-Know demonstrations in each chapter apply key concepts and procedures and include guided video teaching presentations.

This book delivers innovative technology to help student performance. Connect provides students a media-rich eBook version of the textbook and offers instant online grading and feedback for assignments. Connect takes accounting content to the next level, delivering assessment material in a more intuitive, less restrictive format.

Our technology features:

- A general journal interface that looks and feels more like that found in practice.
- An auto-calculation feature that allows students to focus on concepts rather than rote tasks.
- A smart (auto-fill) drop-down design.

The result is content that prepares students for today's world.

Connect also includes digitally based, interactive, adaptive learning tools that engage students more effectively by offering varied instructional methods and more personalized learning paths that build on different learning styles, interests, and abilities.

The revolutionary technology of SmartBook® is available only from McGraw-Hill Education. Based on an intelligent learning system, SmartBook uses a series of adaptive questions to pinpoint each student's knowledge gaps and then provides an optimal learning path. Students spend less time in areas they already know and more time in areas they don't. The result: Students study more efficiently, learn faster, and retain more knowledge. Valuable reports provide insights into how students are progressing through textbook content and information useful for shaping in-class time or assessment.

Interactive Presentations teach each chapter's core learning objectives in a rich, multimedia format, bringing the content to life. Your students come to class prepared when you assign Interactive Presentations. Students can also review the Interactive Presentations as they study. Guided Examples provide students with narrated, animated, step-by-step walk-throughs of algorithmic versions of assigned exercises. Students appreciate Guided Examples, which help them learn and complete assignments outside of class.

A General Ledger (GL) application offers students the ability to see how transactions post from the general journal all the way through the financial statements. It uses an intuitive, less restrictive format, and it adds critical thinking components to each GL question, to ensure understanding of the entire process.

The first and only analytics tool of its kind, **Connect Insight**® is a series of visual data displays—each framed by an intuitive question—to provide information on how your class is doing on five key dimensions.

"A great enhancement! I love the fact that GL makes the student choose from an entire chart of accounts."

-TAMMY METZKE, Milwaukee Area Technical College

About the Authors



Courtesy of John J. Wild

JOHN J. WILD is a distinguished professor of accounting at the University of Wisconsin at Madison. He previously held appointments at Michigan State University and the University of Manchester in England. He received his BBA, MS, and PhD from the University of Wisconsin.

John teaches accounting courses at both the undergraduate and graduate levels. He has received numerous teaching honors, including the Mabel W. Chipman

Excellence-in-Teaching Award and the departmental Excellence-in-Teaching Award, and he is a two-time recipient of the Teaching Excellence Award from business graduates at the University of Wisconsin. He also received the Beta Alpha Psi and Roland F. Salmonson Excellence-in-Teaching Award from Michigan State University. John has received several research honors, is a past KPMG Peat Marwick National Fellow, and is a recipient of fellow-

ships from the American Accounting Association and the Ernst and Young Foundation.

John is an active member of the American Accounting Association and its sections. He has served on several committees of these organizations, including the Outstanding Accounting Educator Award, Wildman Award, National Program Advisory, Publications, and Research Committees. John is author of Fundamental Accounting Principles, Financial Accounting, Managerial Accounting, and College Accounting, all published by McGraw-Hill Education.

John's research articles on accounting and analysis appear in The Accounting Review; Journal of Accounting Research; Journal of Accounting and Economics; Contemporary Accounting Research; Journal of Accounting, Auditing and Finance; Journal of Accounting and Public Policy; and other journals. He is past associate editor of Contemporary Accounting Research and has served on several editorial boards including The Accounting Review.

In his leisure time, John enjoys hiking, sports, boating, travel, people, and spending time with family and friends.



Courtesy of Ken W. Shaw

KEN W. SHAW is an associate professor of accounting and the KPMG/Joseph A. Silvoso Distinguished Professor of Accounting at the University of Missouri. He previously was on the faculty at the University of Maryland at College Park. He has also taught in international programs at the University of Bergamo (Italy) and the University of Alicante (Spain). He received an accounting degree from Bradley University and an MBA and PhD from the University of Wisconsin. He is a

Certified Public Accountant with work experience in public accounting.

Ken teaches accounting at the undergraduate and graduate levels. He has received numerous School of Accountancy, College of Business, and university-level teaching awards. He was voted the "Most Influential Professor" by four School of Accountancy graduating classes and is a two-time recipient of the O'Brien

Excellence in Teaching Award. He is the advisor to his school's chapter of the Association of Certified Fraud Examiners.

Ken is an active member of the American Accounting Association and its sections. He has served on many committees of these organizations and presented his research papers at national and regional meetings. Ken's research appears in the Journal of Accounting Research; The Accounting Review; Contemporary Accounting Research; Journal of Financial and Quantitative Analysis; Journal of the American Taxation Association; Strategic Management Journal; Journal of Accounting, Auditing, and Finance; Journal of Financial Research; and other journals. He has served on the editorial boards of Issues in Accounting Education; Journal of Business Research; and Research in Accounting Regulation. Ken is co-author of Fundamental Accounting Principles, Managerial Accounting, and College Accounting, all published by McGraw-Hill Education.

In his leisure time, Ken enjoys tennis, cycling, music, and coaching his children's sports teams.



Courtesy of Barbara Chiappetta

BARBARA CHIAPPETTA received her BBA in Accountancy and MS in Education from Hofstra University and is an emeritus tenured full professor at Nassau Community College. For many decades, she has been an active executive board member of the Teachers of Accounting at Two-Year Colleges (TACTYC), serving 10 years as vice president and as president from 1993 through 1999. As a member of the American Accounting Association, she has served on the Northeast Regional Steering Committee, chaired the

Curriculum Revision Committee of the Two-Year Section, and participated in numerous national committees.

Barbara has been inducted into the American Accounting Association Hall of Fame for the Northeast Region. She has also

received the Nassau Community College dean of instruction's Faculty Distinguished Achievement Award. Barbara was honored with the State University of New York Chancellor's Award for Teaching Excellence. As a confirmed believer in the benefits of the active learning pedagogy, Barbara has authored *Student Learning Tools*, an active learning workbook for a first-year accounting course, published by McGraw-Hill Education.

In her leisure time, Barbara enjoys tennis and participates on a USTA team. She also enjoys the challenge of bridge. Her husband, Robert, is an entrepreneur in the leisure sport industry. She has two sons—Michael, a lawyer specializing in intellectual property law, and David, a composer pursuing a career in music for film. Barbara has been an important member of this book's author team, and her co-authors continue to acknowledge her substantial contributions to prior editions.

Dear Colleagues and Friends,

As we roll out the new edition of *Financial and Managerial Accounting*, we thank each of you who provided suggestions to improve the textbook and its teaching resources. This new edition reflects the advice and wisdom of many dedicated reviewers, symposium and workshop participants, students, and instructors. Throughout the revision process, we steered this textbook and its teaching tools in the manner you directed. As you'll find, the new edition offers a rich set of features—especially digital features—to improve student learning and assist instructor teaching and grading. We believe you and your students will like what you find in this new edition.

Many talented educators and professionals have worked hard to create the materials for this product, and for their efforts, we're grateful. **We extend a special thank-you to our contributing and technology supplement authors,** who have worked so diligently to support this product:

Contributing Author: Kathleen O'Donnell, Onondaga Community College

Accuracy Checkers: Dave Krug, *Johnson County Community College;* Mark McCarthy, *East Carolina University;* and Beth Kobylarz

LearnSmart Author: April Mohr, *Jefferson Community and Technical College, SW* **Interactive Presentations:** Jeannie Folk, *College of DuPage*, and April Mohr, *Jefferson Community and Technical College, SW*

PowerPoint Presentations and **Instructor Resource Manual:** April Mohr, *Jefferson Community and Technical College*, *SW*

Digital Contributor, Connect Content, General Ledger Problems, Test Bank, and Exercise PowerPoints: Kathleen O'Donnell, *Onondaga Community College*

In addition to the invaluable help from the colleagues listed above, we thank the entire team at McGraw-Hill Education: Tim Vertovec, Steve Schuetz, Natalie King, Michelle Williams, Erin Chomat, Kris Tibbetts, Rebecca Mann, Michael McCormick, Lori Koetters, Peggy Hussey, Xin Lin, Kevin Moran, Debra Kubiak, Sarah Evertson, Brian Nacik, and Daryl Horrocks. We could not have published this new edition without your efforts.

John J. Wild Ken W. Shaw Barbara Chiappetta

Innovative Textbook Features . . .

Using Accounting for Decisions

Whether we prepare, analyze, or apply accounting information, one skill remains essential: decision making. To help develop good decision-making habits and to illustrate the relevance of accounting, we use a learning framework to enhance decision making in four ways. (See the four nearby examples for the different types of decision boxes, including those that relate to fraud.) Decision Insight provides context for business decisions. Decision Ethics and Decision Maker are role-playing scenarios that show the relevance of accounting. Decision Analysis provides key tools to help assess company performance.



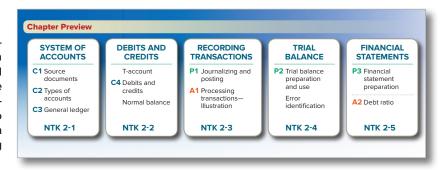


"This textbook does address many learning styles and at the same time allows for many teaching styles . . . our faculty have been very pleased with the continued revisions and supplements. I'm a 'Wild' fan!"

-RITA HAYS, Southwestern Oklahoma State University

Chapter Preview

Each chapter opens with a visual chapter preview. Students can begin their reading with a clear understanding of what they will learn and when. Learning objective numbers highlight the location of related content. Each "block" of content concludes with a Need-to-Know (NTK) to aid and reinforce student learning. Organization into "blocks" aids students in quickly searching for answers to homework assignments.

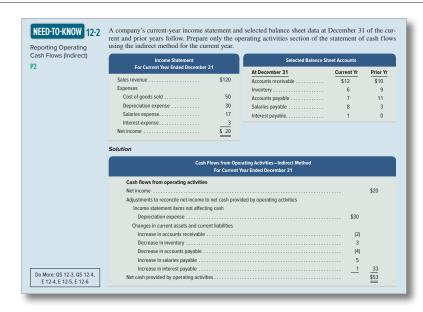




CAP Model

The Conceptual/Analytical/Procedural (CAP) model allows courses to be specially designed to meet the teaching needs of a diverse faculty. This model identifies learning objectives, textual materials, assignments, and test items by C, A, or P, allowing different instructors to teach from the same materials, yet easily customize their courses toward a conceptual, analytical, or procedural approach (or a combination thereof) based on personal preferences.

Bring Accounting to Life



Need-to-Know Demonstrations

Need-to-Know demonstrations are located at key junctures in each chapter. These demonstrations pose questions about the material just presented—content that students "need to know" to successfully learn accounting. Accompanying solutions walk students through key procedures and analysis necessary to be successful with homework and test materials. Need-to-Know demonstrations are supplemented with narrated, animated, step-by-step walk-through videos led by an instructor and available via Connect.

Global View

The Global View section explains international accounting practices related to the material covered in that chapter. The aim of this section is to describe accounting practices and to identify the similarities and differences in international accounting practices versus those in the United States. The importance of student familiarity with international accounting continues to grow. This innovative section helps us begin down that path. This section is purposefully located at the very end of each chapter so that each instructor can decide what emphasis, if at all, is to be assigned to it.





ReGreen Corporation, featured in this chapter's opening story, is committed to

improving the environment by helping businesses apply sustainable solutions. ReGreen's website touts its mission: "to improve the health of our planet and economy through the implementation of profitable energy solutions."

So far, ReGreen has been able to reduce their clients' energy consumption and

so tar, Recificed in as been and to reduce their clients energy consumption and water costs by an average of 60%. It offers customers guaranteed payback on sustainable investments within two years. "We're pleased to have met those challenges," proclaims co-founder David Duel.

David explains that the two-year payback guarantee on sustainable investments requires use of a reliable accounting system. ReGreen uses its accounting system to track investments in assets and the cost savings associated with these assets. This information is used to make sure ReGreen can meet its two-year payback guarantee. Without such a guarantee, businesses may be less willing to invest in sustainable solutions.

invest in sustainable solutions.

ReGreen also uses accounting data to track clients' progress on sustainability initiatives. ReGreen reviews its customers' accounting systems to analyze energy and water expenses. The entrepreneurs use these data to make recommendations on how ReGreen's customers can "achieve significant energy cost savings" and reduce their impact on the environment, explains David.

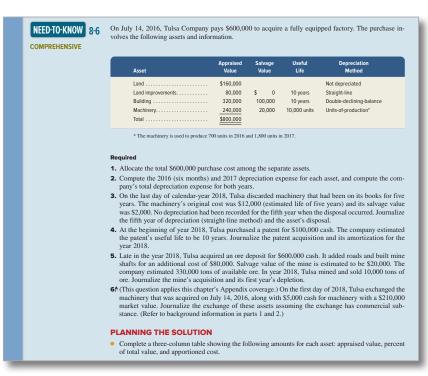
Sustainability and Accounting

This edition has brief sections that highlight the importance of sustainability within the broader context of global accounting (and accountability). Companies increasingly address sustainability in their public reporting and consider the sustainability accounting standards (from the Sustainability Accounting Standards Board) and the expectations of our global society. These sections cover different aspects of sustainability, often within the context of the chapter's featured entrepreneurial company.

Outstanding Assignment Material . . .

Once a student has finished reading the chapter, how well he or she retains the material can depend greatly on the questions, brief exercises, exercises, and problems that reinforce it. This book leads the way in comprehensive, accurate assignments.

Comprehensive Need-to-Know Problems present both a problem and a complete solution, allowing students to review the entire problem-solving process and achieve success. The problems draw on material from the entire chapter.



Summary

- C1 Explain the steps in processing transactions and the role of source documents. Transactions and events are the starting points in the accounting process. Source documents identify and describe transactions and events and provide objective and reliable evidence. The effects of transactions and events are recorded in journals. Posting along with a trial balance helps summarize and classify these effects.
- C2 Describe an account and its use in recording transactions. An account is a detailed record of increases and decreases in a specific asset, liability, equity, revenue, or expense. Information from accounts is analyzed, summarized, and presented in reports and financial statements.
- C3 Describe a ledger and a chart of accounts. The ledger (or general ledger) is a record containing all accounts used by a company and their balances. It is referred to as the books. The chart of accounts is a list of all accounts and usually includes an identification number assigned to each account.
- C4 Define debits and credits and explain double-entry accounting. Debit refers to left, and credit refers to right. Debits increase assets, expenses, and withdrawals while credits decrease them. Credits increase liabilities, owner capital, and

- A1 Analyze the impact of transactions on accounts and financial statements. We analyze transactions using concepts of double-entry accounting. This analysis is performed by determining a transaction's effects on accounts.
- A2 Compute the debt ratio and describe its use in analyzing financial condition. A company's debt ratio is computed as total liabilities divided by total assets. It reveals how much of the assets are financed by creditor (nonowner) financing. The higher this ratio, the more risk a company faces because liabilities must be repaid at specific dates.
- P1 Record transactions in a journal and post entries to a ledger. Transactions are recorded in a journal. Each entry in a journal is posted to the accounts in the ledger. This provides information that is used to produce financial statements. Balance column accounts are widely used and include columns for debits, credits, and the account balance.
- P2 Prepare and explain the use of a trial balance. A trial balance is a list of accounts from the ledger showing their debit or credit balances in separate columns. The trial balance is a summary of the ledger's contents and is useful in preparing financial statements and in revealing recordkeeping errors.

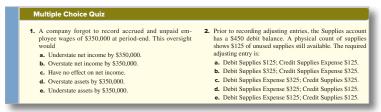
Chapter Summaries provide students with a review organized by learning objectives. Chapter Summaries are a component of the CAP model (as discussed in the "Innovative Textbook Features" section), which recaps each conceptual, analytical, and procedural objective.

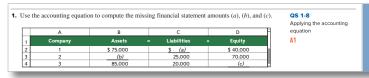
Key Terms are bolded in the text and repeated at the end of the chapter. A complete glossary of key terms is available online through **Connect**.

Key Terms Accounting period Accrual basis accounting Contra account Profit margin Accrued expenses Depreciation Revenue recognition principle Accrued revenues Straight-line depreciation method Accumulated depreciation Time period assumption Fiscal year Adjusted trial balance Unadjusted trial balance Adjusting entry Interim financial statements Unearned revenues Natural business year Annual financial statements Plant assets

Helps Students Master Key Concepts

Multiple Choice Quiz questions quickly test chapter knowledge before a student moves on to complete Quick Studies, Exercises, and Problems.

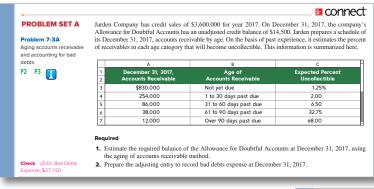




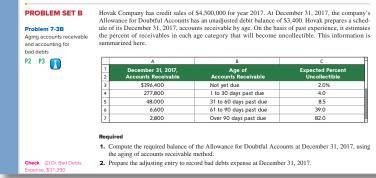
Quick Study assignments are short exercises that often focus on one learning objective. Most are included in **Connect.** There are at least 10–15 Quick Study assignments per chapter.

Exercises are one of this book's many strengths and a competitive advantage. There are at least 10–15 per chapter, and most are included in **Connect**.





Problem Sets A & B are proven problems that can be assigned as homework or for in-class projects. All problems are coded according to the CAP model (see the "Innovative Textbook Features" section), and Set A is included in **Connect.**



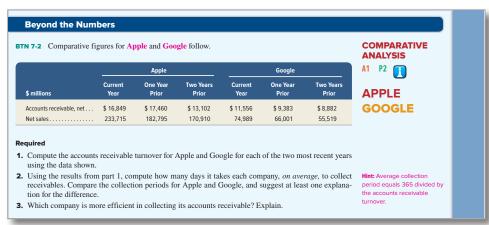
"I like the layout of the text and the readability. The illustrations and comics in the book make the text seem less intimidating and boring for students. The PowerPoint slides are easy to understand and use, the pictorials are great, and the text has great coverage of accounting material. The addition of IFRS information and the updates to the opening stories are great. I like that the Decision Insights are about businesses the students can relate to."

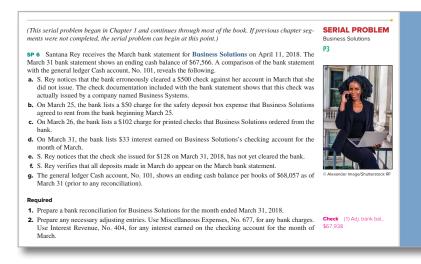
-JEANNIE LIU, Chaffey College

Outstanding Assignment Material . . .

Beyond the Numbers exercises ask students to use accounting figures and understand their meaning. Students also learn how accounting applies to a variety of business situations. These creative and fun exercises are all new or updated and are divided into nine types:

- · Reporting in Action
- Comparative Analysis
- · Ethics Challenge
- · Communicating in Practice
- Taking It to the Net
- · Teamwork in Action
- · Hitting the Road
- Entrepreneurial Decision
- Global Decision





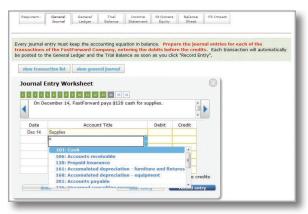
Serial Problems use a continuous running case study to illustrate chapter concepts in a familiar context. The Serial Problem can be followed continuously from the first chapter or picked up at any later point in the book; enough information is provided to ensure students can get right to work.

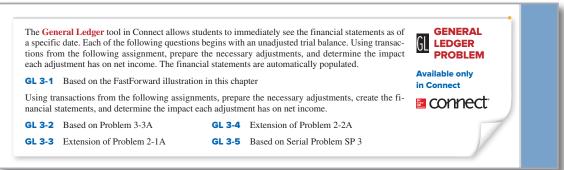
"The Serial Problems are excellent. . . . I like the continuation of the same problem to the next chapters if applicable. I use the Quick Studies as practice problems. . . . Students have commented that this really works for them if they work (these questions) before attempting the assigned exercises and problems. I also like the discussion (questions) and make this an assignment. You have done an outstanding job presenting accounting to our students."

—JERRI TITTLE, Rose State College

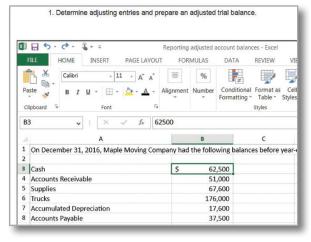
Helps Students Master Key Concepts

General Ledger Problems enable students to see how transactions are entered in the journal, post to the ledger, listed in a trial balance, and reported in financial statements. Students can track an amount in any financial statement all the way back to the original journal entry. Critical thinking components then challenge students to analyze the business activities in the problem.

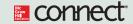




Excel Simulations allow you to practice your Excel skills, such as basic formulas and formatting, within the context of accounting. These questions feature animated, narrated Help and Show Me tutorials (when enabled by your instructor).



The End of the Chapter Is Only the Beginning Our valuable and proven assignments aren't just confined to the book. From problems that require technological solutions to materials found exclusively online, this book's end-of-chapter material is fully integrated with its technology package.



Quick Studies, Exercises, and Problems available in Connect are marked with an icon.



Assignments that focus on global accounting practices and companies are often identified with an icon.



Assignments that involve decision analysis are identified with an icon.



Assignments that involve ethical or fraud risk are marked with an icon.



Assignments that involve sustainability issues are marked with an icon.

Content Revisions Enhance Learning

This edition's revisions are driven by feedback from instructors and students. They include:

- Many new, revised, and updated assignments throughout, including entrepreneurial and real-world assignments.
- Many Need-to-Know (NTK) demonstrations added to each chapter at key junctures to reinforce learning.
- Updated Sustainability section for each chapter, with examples linked to the new chapter-opening company.
- New annual reports and comparative (BTN) assignments: Apple, Google, and Samsung.
- Revised art program, visual infographics, and text layout.
- Updated ratio/tool analysis using data from well-known firms.
- Revised General Ledger assignments for most chapters.
- New and revised entrepreneurial examples and elements.
- New technology content integrated and referenced throughout.
- Revised Global View section moved to the very end of each chapter following assignments.

Chapter 1

Updated opener—Apple and entrepreneurial assignment.
Updated salary info for accountants and for those with college degrees.
Streamlined "Fraud Triangle" section.

Updated "Cooking the Books" Fraud

Moved "Enforcing Ethics" section to earlier in chapter.

Streamlined the "Fundamentals of Accounting" section.

Streamlined the "International Standards" section.

Updated the revenue recognition section.

New margin point to highlight layout of statement of retained earnings.

Updated Sustainability section for **Apple**'s renewable energy efforts, including SASB.

Updated Decision Insight box on sustainability returns.

New company, **Verizon**, for Decision Analysis section.

Streamlined Appendix 1A and 1B. Added new Exercise.

Chapter 2

NEW opener—Soko and entrepreneurial assignment. Simplified discussion on analyzing and recording process.

Streamlined discussion of classified vs. unclassified balance sheet.

Enhanced explanation of computing equity.

Enhanced Exhibit 2.4 to identify account categories.

Improved summary of transactions in the ledger.

Streamlined explanation of error correction in entries.

New accounting quality box with

reference to KPMG data. Revised Sustainability section on cost savings for small business.

Updated debt ratio analysis using

Skechers.

Added two Quick Study assignments.

Updated **Piaggio**'s (IFRS) balance

Chapter 3

NEW opener—LuminAID and entrepreneurial assignment.
Streamlined accrual-basis vs. cash-

basis section. New box on how accounting is used to

claw back false gains.
Streamlined introduction to accounting

adjustments.

Continue to emphasize 3-step adjusting

process.
Simplified the "Explanation" section

for each adjustment. Enhanced Exhibit 3.12 on summary of

adjustments.

New art distinguishing between

temporary and permanent accounts.
Enhanced Exhibit 3.19 on steps of the

Enhanced Exhibit 3.19 on steps of the accounting cycle.

Sustainability section on key to tracking numbers for LuminAID. Updated profit margin and current ratio analysis using L Brands. Added one Quick Study and one Exercise.

Reorganized Global View section. Updated **Piaggio**'s classified balance sheet.

Chapter 4

NEW opener—Sword & Plough and entrepreneurial assignment. Revised introduction for servicers vs. merchandisers using Liberty Tax and

Nordstrom as examples.

New NTK 4-1 to aid learning of

merchandising. Reorganization of "Purchases" section to aid learning.

Enhanced entries on payment of purchases within discount period vs. after discount period.

Simplified purchase returns illustration.

Reorganized explanation for FOB terms.

Reorganized entries for sales with discounts vs. sales without discounts.

Enhanced entries to explain sales returns and how to account for inventory returned.

New section introducing adjusting entries for future sales discounts and

sales returns and allowances—details in new Appendix 4C.

Introduced new accounts under new revenue recognition rules.

Expanded Exhibit 4.12 to cover updated merchandising transactions.

Updated "Shenanigans" box with data from KPMG.

Sustainability section on accounting for merchandising as key to **Sword & Plough**.

Updated acid-test ratio and gross margin analysis of **JCPenney**. New Appendix 4D showing entries for gross vs. net method.

Added five Quick Study assignments and three Exercises.

Updated Volkswagen income report in Global View

Chapter 5

NEW opener—Homegrown
Sustainable Sandwich and
entrepreneurial assignment.
Simplified specific identification
calculations in Exhibit 5.4.
New image for each inventory method
to show cost flows of goods at each
sale date.

Added colored arrow lines to weighted average in Exhibit 5.7 to show cost flows from purchase to sale. Updated box on purchasing kickbacks using KPMG data.

Lower-of-cost-or-market section simplified.

Enhanced layout to explain effects of inventory errors across years. Updated Sustainability section explains importance of perpetual inventory for organic producers. Updated inventory turnover and days' sales in inventory analysis using **Toys** 'R' Us.

Appendix 5A: New images show cost flow of goods at each period end for each inventory measurement method.

Appendix 5B: Revised to be consistent with new revenue recognition rules.
Updated global accounting to

Updated global accounting to remove convergence project reference.

Chapter 6

NEW opener—Robinhood and entrepreneurial assignment.

New image for certificate of bond coverage.

New discussion of controls over social media with reference to **Facebook**'s "mood" posts.

New discussion box on how fraud is detected.

New evidence on how cash is stolen from companies.

Simplified the petty cash illustration.

Simplified the bank statement for learning.

Simplified discussion of debit and credit memoranda.

New table to identify timing differences for bank reconciliation.

New pie chart on the top contributors to fraud.
Updated Sustainability section

for **Robinhood**'s success.
Updated days' sales uncollected analysis using **Hasbro** and **Mattel**.
Deleted Appendix 6B (now Appendix 4D).

Chapter 7

account.

NEW opener—ReGreen and entrepreneurial assignment.
Updated data in Exhibit 7.1.
New section for sales using store credit

Simplified section for sales using bank (third-party) credit cards to show only entries for cash received at point of

Revised NTK 7-1 for new credit card entries.

Reorganized section on direct write-off method.

New Exhibit 7.9 showing allowances set aside for future bad debts. Continued 3-step process to estimate allowance for doubtful accounts. New marginal T-account to show numbers flowing through Allowance

Continued Exhibit 7.13 arriving at the accounting adjustment.

New calendar graphic added as learning aid in Exhibit 7.15.

New Sustainability section on **ReGreen**'s efforts.

Updated accounts receivable analysis using **IBM** and **Oracle**.
Added one new Exercise.

Chapter 8

NEW opener—Westland Distillery and entrepreneurial assignment. Updated data in Exhibit 8.1. Revised images for Exhibit 8.2. Simplified Exhibit 8.4 for lump-sum purchases.

Enhanced Exhibit 8.7 with actual numbers.

Added margin Excel computations for Exhibit 8.12.

Added margin table to Exhibit 8.14 as learning aid.

Updated **Dale Jarrett Racing** asset listing.

Added table to explain additional expenditures, including examples and entries.

New simple introduction to operating leases and capital leases.

Added paragraph on R&D expenditures. Updated "In Control" fraud box with new KPMG data.

Sustainability section on how Westland Distillery relies on accounting for its success.
Updated asset turnover analysis using Molson Coors and Boston Beer.

Simplified Appendix 8A by excluding exchanges without commercial substance.

Chapter 9

NEW opener—Hello Alfred and entrepreneurial assignment. Updated data in Exhibit 9.2. Updated payroll tax rates and explanations.

New explanation of Additional Medicare Tax.

Updated unemployment tax rate section.

New section on internal controls for payroll.

New box on payroll fraud with KPMG data.

Simplified bonus explanation and computations. Updated NTK 9-2 and NTK 9-3. Sustainability section explains accounting for "Alfreds." Updated payroll reports in Appendix 9A.

Chapter 10

NEW opener—Uber and entrepreneurial assignment. Simplified Exhibit 10.1 for ease of learning. Updated the IBM stock quote data. New bond image from Minnesota Vikings stadium bonds.

New NTK 10-1 covering bonds issued at par.

Simplified Exhibit 10.6 on discount bonds.

New T-accounts with Exhibit 10.6 to show bonds payable and the discount on bonds payable.

Simplified Exhibit 10.10 on premium bonds.

Bond pricing moved to Appendix 10A. Simplified Exhibit 10.14 for note amortization schedule.

Updated "Missing Debt" box using new data from KPMG.

Sustainability section explains bond financing for ${\bf Uber.}$

Updated debt-to-equity analysis using **Amazon**.

New margin Excel computations for bond pricing.

Added margin T-accounts for bonds in Appendix 10B.

Simplified lease example in Appendix 10C.

Chapter 11

NEW opener—Tesla Motors and entrepreneurial assignment.
Streamlined discussion of corporate characteristics.

Updated the **Target** stock quote data.

Simplified section on stock dividends.

Continued 5-step process for stock dividends.

Revised Exhibit 11.8 to show dividend effects.

New reference to **Apple**'s 7-for-1 stock split.

Streamlined section on dividend preference of preferred stock. Updated the **Apple** statement of equity.

Sustainability section explains how **Tesla** relies on accounting data to make energy-wise decisions. Updated PE and dividend yield ratios for **Amazon** and **Altria**. Simplified book value per share computations.

Chapter 12

NEW opener—Amazon and entrepreneurial assignment.
Continued infographics on examples of operating, investing, and financing cash flows.

Kept 5-step process for preparing statement of cash flows.

New graphic on use of indirect vs. direct methods.

New presentation to highlight indirect adjustments to income.

Updated box comparing operating cash flows to income for companies.

Kept "Summary T-Account" for learning statement of cash flows.

New Sustainability section on **Amazon**'s initiatives.
Updated cash flow on total assets

Updated cash flow on total asse analysis using **Nike**.

Chapter 13

NEW opener—Morgan Stanley and entrepreneurial assignment.
Streamlined the "Basics of Analysis"

Simplified computations for comparative statements.

Updated data for analysis of **Apple** using horizontal, vertical, and ratio analysis.

Updated comparative analysis using **Google** and **Samsung**.

New evidence on accounting ploys by CFOs.

New Sustainability section on **Morgan Stanley**'s initiatives.

Revised "All Else Being Equal" Fraud box using KPMG data.

Revised Appendix 13A to reflect new rules that remove separate disclosure of extraordinary items.

Revised assignments for new standard on extraordinary items.

Chapter 14

NEW opener—NatureBox and entrepreneurial assignment.
Simplified discussion on purpose of managerial accounting.
Added references to more real-world

companies.

Added discussion of enterprise risk

management.

Revised Exhibit 14.1 to show common managerial decisions.

Simplified discussion on nature of managerial accounting.

New section on careers in managerial accounting and importance of managerial accounting for nonaccountants.

New exhibit on managerial accounting salaries.

Added example on cost of iPhone. New section head and revised discussion for nonmanufacturing costs.

Added graphics to cost flow exhibit. Reduced number of overhead items in exhibit for cost of goods manufactured statement.

Added section on computing cost per unit.

Updated "trends" section to include *gig economy* (**Uber**), triple bottom line, and ISO 9000 standards.

Expanded discussion of sustainability and SASB.

Expanded Sustainability section with Decision Insight chart and **NatureBox** example.

Added Discussion Question on triple bottom line.

Added two Quick Studies on raw materials activity for **3M Co**. Added Exercises on sustainability reporting for **Starbucks** and **Hyatt**.

Chapter 15

NEW opener—Neha Assar and entrepreneurial assignment. Simplified discussion of cost accounting systems.

Simplified direct material and direct labor cost flows and entries. Added time period information to graphic on 4-step overhead process.

graphic on 4-step overhead process. Simplified discussion of recording overhead costs. Added journal entry for depreciation

Added Journal entry for depreciation expense on equipment in NTK 15-5. Revised exhibits for posting of direct materials, direct labor, and overhead to general ledger accounts and job cost sheets.

Added section on using job cost sheet for managerial decisions. Added entries for transfers of costs to Finished Goods Inventory and to

Expanded discussion of job order costing for service firms.

New exhibit and cost flows for service

Expanded Sustainability section, including USPS and Neha Assar

examples.

New NTK on using the job cost sheet.

Added new Quick Study and new

Exercise on costing for service firms.

Chapter 16

NEW opener-Stance and entrepreneurial assignment. Revised exhibit on cost flows in job order and process costing systems. Revised exhibit on production data and physical flow of units. Added transfer to finished goods and updated ending balance to WIP T-account for second process. New section on using process cost summary for decisions. Added discussion of the raw materials yield to "trends" section. Revised exhibit and discussion of assigning cost using FIFO. Expanded discussion of hybrid and operation costing. Expanded Sustainability discussion,

including General Mills and Stance examples.

Added Discussion Question on

sustainable raw materials sourcing.

Chapter 17

NEW opener—GrandyOats and entrepreneurial assignment. Revised discussion of why overhead costs must be assigned. Revised discussions of plantwide and departmental methods.

New exhibit on overhead allocation using plantwide method.

Revised discussion of applying activitybased costing.

Revised exhibit of overhead allocation using activity-based costing.

Revised discussion of advantages and disadvantages of activity-based costing. Revised and reorganized discussion of advantages and disadvantages of ABC. Expanded discussion of lean operations and lean accounting.

Revised Sustainability section on supply chain management. New NTK on activity levels. Revised Global View on Toyota's lean manufacturing.

Chapter 18

NEW opener-Sweetgreen and entrepreneurial assignment. New exhibit on building blocks of CVP analysis.

Revised discussion on uses of CVP analysis.

Revised discussion of fixed and variable costs.

Added data points to margin of fixed and variable cost exhibit.

New graphic on examples of fixed, variable, and mixed costs.

Revised discussion on step-wise and curvilinear costs.

Revised cost data for measuring cost behavior.

Reorganized break-even section into three methods.

Revised discussions of contribution margin income statement and CVP charts.

Moved margin of safety to section on applying CVP.

Added discussion of sales mix and break-even for Amazon.

Revised discussion of assumptions in CVP.

Revised Sustainability section with Nike, CVP analysis, and Sweetgreen

Expanded appendix on variable and absorption costing.

Added Discussion Question, four Quick Studies, and 1 Exercise on variable and absorption costing.

Revised Global View on BMW's i3 break-even point.

Chapter 19

NEW opener—Riffraff and entrepreneurial assignment. Revised discussion of variable and absorption costing.

Revised discussion of income implications of variable and absorption costing.

New graphics on relations between production, sales, and income effects. Added T-accounts to exhibits of absorption and variable costing income.

Revised discussion and exhibits of product cost assignments to financial statements.

New graphic on relation between changes in inventory and income effects. Revised discussion of planning

Revised discussion of controlling costs. Added calculation of break-even using variable costing income statement. Added exhibit on variable costing income statement for service firm. Added example of special order decision for service firm. Added NTK problem on pricing and

special offer. Added two new Quick Studies on sustainability.

Revised Sustainability section on PUMA's environmental profit and loss account.

Chapter 20

NEW opener-TaTa Topper and entrepreneurial assignment. Revised discussion, with new exhibit, of budgeting as a management tool. Revised discussion on benefits of budgeting.

Added new graphic on benefits of budgeting.

Revised discussion of budgeting and human behavior.

New Decision Insight on zero-based budgeting.

New NTK on the benefits and potential costs of budgeting.

Revised master budget process exhibit to reflect types of activities.

Added graphics showing formulas to compute direct materials requirements and direct labor cost.

Revised discussions of direct materials, direct labor, and factory overhead budgets.

Added discussion and exhibits of estimated cash receipts with alternative collection timing and uncollectible accounts.

Added T-account to cash budget exhibit. New NTKs on the cash budget. Added margin point on the impact of credit and debit card fees on cash receipts.

Added section with exhibit on budgeting for service companies. New Sustainability section with discussion of Johnson & Johnson and exhibit and TaTa Topper example. Added Discussion Question and Quick Study on sustainability and budgeting. Added Exercise on budgeted cash payments on account.

Chapter 21

NEW opener-Riide and entrepreneurial assignment. New exhibit on fixed versus flexible

Revised discussion of fixed versus flexible budgets.

New 3-step process to prepare a flexible budget.

Added section on formula for computing total budgeted cost in a flexible budget.

Revised discussion of setting standard

Revised exhibit on cost variance formula

Added discussion of potential causes of direct labor variances.

New 3-step process for determining standard overhead rate.

New exhibit, formula, and computation of standard overhead applied. Revised discussion of overhead volume and controllable variances

Added calculations of controllable variance and budgeted overhead costs. Added discussion, exhibit, and Discussion Question of the pros and cons of standard costing.

Added discussion of the International Integrated Reporting Council. New Sustainability section with discussion of Intel and executive pay and Riide examples.

Added two Quick Studies on sustainability and standard costs.

Chapter 22

NEW opener-Ministry and entrepreneurial assignment. Reorganized chapter.

Revised discussion of performance evaluation and decentralization. Revised discussion of Kraft Heinz

responsibility centers. Revised exhibit on responsibility accounting.

Revised discussion of responsibility accounting reports.

Added NTKs on responsibility accounting, cost allocations, and balanced scorecard.

Revised discussion of indirect expense allocations.

New exhibit and discussion of general model of expense allocation. New exhibit on common allocation

bases for indirect expenses. Revised discussion of preparing

departmental income. New exhibit and formula for computing

departmental income. Added short section on transfer

pricing. New Sustainability section with

discussion of General Mills, Target performance reporting, and Ministry example.

Chapter 23

NEW opener—Adafruit Industries and entrepreneurial assignment. Added discussion of outsourcing in make or buy decision. Revised discussion of relevant costs

and benefits.

Revised exhibit on scrap or rework analysis.

Revised Sustainability section on suppliers' labor practices, with Apple Code of Conduct and Adafruit examples.

Added Appendix and end-of-chapter assignments on product pricing.

Chapter 24

budgeting process.

NEW opener—Simply Gum and entrepreneurial assignment. Added exhibit and discussion of capital

Added exhibit and discussion of cash inflows and outflows in capital budgeting. Added lists of strengths and weaknesses, with revised discussion, of payback period.

Added list of weaknesses of accounting rate of return method

New art showing timeline of NPV

Added discussion of capital rationing. Added financial calculator and Excel steps for many calculations. Revised Sustainability section on capital budgeting for solar investments and Simply Gum example. Added two Quick Studies on capital

Appendix A

New financial statements for Apple, Google, and Samsung.

budgeting for solar investments.

Appendix B

New organization with detailed subheadings.

Added Excel computations for PV and FV of single amounts.

Added Excel computations for PV and FV of annuity.

Appendix C

Updated data in Exhibit C.1. Continued 3-step process for fair value adjustment.

Reorganized section on securities with significant influence.

New Exhibit C.7 to describe accounting for equity securities by ownership level. Updated Google example for

Updated Sustainability section

comprehensive income

stresses investment accounting for Echoing Green.

Updated component-returns analysis using Gap.

Investments in international operations set online in Appendix C-A.

Appendix D

Streamlined discussion of partnership characteristics.

New margin T-accounts for Exhibits D.1 and D.2. Updated Sustainability section describes accounting for nonprofit sales of Scholly.

Added two Quick Study assignments, one Exercise, and one Problem.



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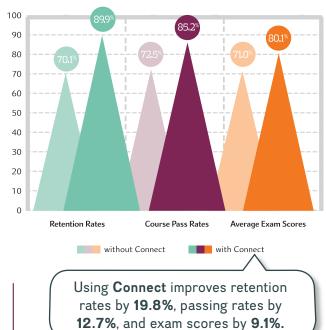
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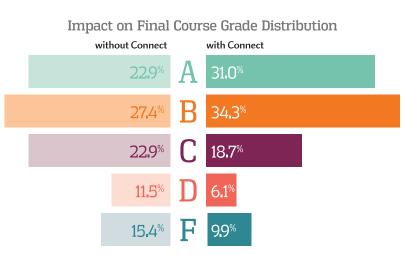
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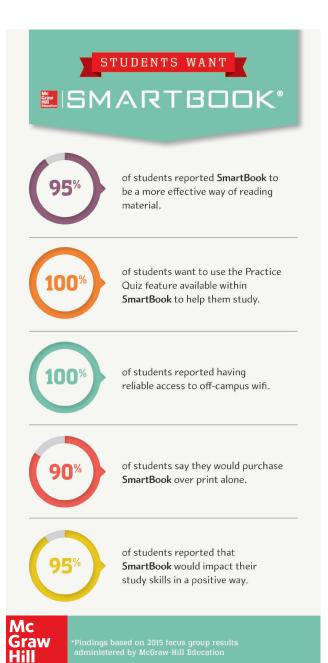
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Brief Review BR-1

^{*} Appendix D is available in McGraw-Hill Education Connect and as a print copy from a McGraw-Hill Education sales representative.



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 $^{* \} Appendix \ D \ is \ available \ in \ McGraw-Hill \ Education \ Connect \ and \ as \ a \ print \ copy \ from \ a \ McGraw-Hill \ Education \ sales \ representative.$

Financial and Managerial Accounting

chapter —

Accounting in Business

Chapter Preview

ACCOUNTING USES

- C1 Purpose of accounting
- C2 Accounting information users

Opportunities in accounting

NTK 1-1

ETHICS AND ACCOUNTING

- C3 Ethics—Key concept
- C4 Generally accepted accounting principles

Conceptual framework

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TRANSACTION ANALYSIS

- A1 Accounting equation and its components
- P1 Transaction analysis— Illustrated

NTK 1-3, 1-4

FINANCIAL STATEMENTS

- P2 Income statement
 - Statement of retained earnings
 - Balance sheet
 - Statement of cash flows
- A2 Financial analysis

NTK 1-5

Chapter Preview is organized by key topics and includes learning objectives and **Need-To-Know (NTK)** guided video examples

Learning Objectives are classified as conceptual, analytical, or procedural

Learning Objectives

CONCEPTUAL

- **C1** Explain the purpose and importance of accounting.
- **C2** Identify users and uses of, and opportunities in, accounting.
- **C3** Explain why ethics are crucial to accounting.
- **C4** Explain generally accepted accounting principles and define and apply several accounting principles.

C5 Appendix 1B—Identify and describe the three major activities of organizations.

ANALYTICAL

- **A1** Define and interpret the accounting equation and each of its components.
- A2 Compute and interpret return on assets.
- **A3** Appendix 1A—Explain the relation between return and risk.

PROCEDURAL

- P1 Analyze business transactions using the accounting equation.
- P2 Identify and prepare basic financial statements and explain how they interrelate.



A Decision Feature launches each chapter showing the relevance of accounting for a real entrepreneur. An Entrepreneurial Decision assignment returns to this feature with a mini-case

CUPERTINO, CA-"When I designed the Apple stuff," says Steve Wozniak (a.k.a. the Wizard of Woz), "I never thought in my life I would have enough money to fly to Hawaii or make a down payment on a house." But some dreams do come true. Woz, along with Steve Jobs and Ron Wayne, founded Apple (Apple.com) when Woz was 25 and Jobs was 21.

The young entrepreneurs faced challenges, including how to read and interpret accounting data. Another challenge was how to finance the company, which they did by selling their prized

possessions-Woz's Hewlett-Packard calculator and Jobs's Volkswagen van. The \$1,300 raised helped them

purchase the equipment Woz used to build the first Apple computer.

In setting up their company, the owners had to decide what type of entity to form—a partnership or a corporation. They decided on a partnership, and Ron "sat down at a typewriter and typed our partnership contract right out of his head," recalls Woz. "He did an etching of Newton under the apple tree for the cover of our Apple I manual."

The partnership agreement included Ron as a third partner with 10% ownership. However, a few days later, Ron had a change of heart when he considered the unlimited liability of a partnership. He pulled out, leaving Woz and Jobs holding 50% each. Within nine months, Woz and Jobs identified some advantages to the corporate form, and they converted Apple to a corporation.

As their company grew, Woz and Jobs had to learn more accounting, along with details of preparing and interpreting financial statements. Important questions involving transaction analysis and financial reporting arose, and the owners took care

> to do things right. "Everything we did," asserts Woz, "we were setting

"The first Apple was . . . my whole life" -Steve Wozniak the tone for the world." Woz and Jobs improved their accounting system and fo-

cused it on providing information for Apple's business decisions. Today, Woz believes that Apple is integral to the language of technology, just as accounting is the language of business. In retrospect, Woz says, "Every dream I have ever had in life has come true ten times over."

Sources: Woz website, Woz.org, January 2017; iWoz: From Computer Geek to Cult Icon, W.W. Norton & Co., 2006; Founders at Work, Apress, 2007; Apple website. January 2017

IMPORTANCE OF ACCOUNTING

C1

Explain the purpose and importance of accounting.

Why is accounting so popular on campus? Why are there so many openings for accounting jobs? Why is accounting so important to companies? Why do politicians and business leaders focus on accounting regulations? The answer is that we live in an information age in which accounting information impacts us all.

Accounting is an information and measurement system that identifies, records, and communicates information about an organization's business activities. Exhibit 1.1 portrays these accounting functions.

EXHIBIT 1.1

Accounting Functions



Select transactions and events

Input, measure, and log

Prepare, analyze, and interpret

Our most common contact with accounting is through credit approvals, checking accounts, tax forms, and payroll. These experiences focus on **recordkeeping**, or **bookkeeping**, which is the recording of transactions and events. This is just one part of accounting. Accounting also includes the analysis and interpretation of information.

Technology is a key part of modern business and plays a major role in accounting. Technology reduces the time, effort, and cost of recordkeeping while improving accuracy. Some small organizations perform accounting tasks manually, but even they are impacted by technology. As technology makes more information available, the demand for accounting knowledge increases. Consulting, planning, and other financial services are now closely linked to accounting.

Point: Technology is only as useful as the accounting data available, and users' decisions are only as good as their understanding of accounting.

....

Users of Accounting Information

Accounting is called the *language of business* because all organizations set up an accounting system to communicate data that help people make better decisions. Exhibit 1.2 divides these people into two user groups, *external users* and *internal users*, and provides examples of each.

L_Z

Identify users and uses of, and opportunities in, accounting.

EXHIBIT 1.2

Users of Accounting Information

External users



Infographics reinforce key concepts through visual learning

- Lenders
- Shareholders
- Governments
- Consumer groups
- External auditors
- Customers

Internal users



- Executives
- Managers
- Internal auditors
- Sales staff
- Budget analysts
- Controllers

External Information Users External users of accounting information do *not* directly run the organization and have limited access to its accounting information. **Financial accounting** is the area of accounting aimed at serving external users by providing them with *general-purpose financial statements*. The term *general-purpose* refers to the broad range of purposes for which external users rely on these statements. Following is a partial list of external users and decisions they make with accounting information.

- Lenders (creditors) loan money or other resources to an organization. Banks, savings and loans, co-ops, and mortgage and finance companies are lenders. Lenders use information to assess whether an organization will repay its loans with interest.
- *Shareholders* (*investors*) are the owners of a corporation. They use accounting reports in deciding whether to buy, hold, or sell stock.
- *Directors* are elected to a *board of directors* that oversees an organization. Directors report to shareholders and they hire top executive management.
- External (independent) auditors examine financial statements to verify that they are prepared according to generally accepted accounting principles.
- *Nonexecutive employees* and *labor unions* use financial statements to judge the fairness of wages, assess job prospects, and bargain for better wages.
- Regulators have legal authority over certain activities of organizations. For example, the Internal Revenue Service (IRS) requires accounting reports in computing taxes.
- *Voters, legislators,* and *government officials* use accounting information to monitor and evaluate government receipts and expenses.
- *Contributors* to nonprofit organizations use accounting information to evaluate the use and impact of their donations.
- Suppliers use accounting information to judge the financial health of a customer before making sales on credit.
- Customers use financial reports to assess the staying power of potential suppliers.

Internal Information Users Internal users of accounting information directly manage and operate the organization such as the chief executive officer (CEO) and other executive or managerial-level employees. **Managerial accounting** is the area of accounting that serves the decision-making needs of internal users. Internal reports are not subject to the same rules as external reports and are designed for the unique needs of internal users. Following is a partial list of internal users and decisions they make with accounting information.

- Research and development managers need information about projected costs and revenues of innovations.
- Purchasing managers need to know what, when, and how much to purchase.
- *Human resource managers* need information about employees' payroll, benefits, performance, and compensation.
- Production managers depend on information to monitor costs and ensure quality.
- *Distribution managers* need reports for timely, accurate, and efficient delivery of products and services.
- *Marketing managers* use reports about sales and costs to target consumers, set prices, and monitor consumer needs, tastes, and price concerns.
- Service managers require information on the costs and benefits of looking after products and services.

Opportunities in Accounting

Accounting has four broad areas of opportunities: financial, managerial, taxation, and accounting-related. Exhibit 1.3 lists selected opportunities in each area.

EXHIBIT 1.3

Accounting Opportunities

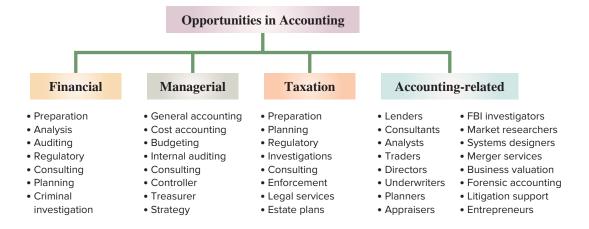
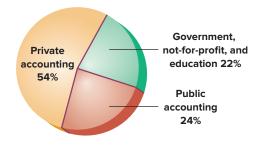


Exhibit 1.4 shows that the majority of opportunities are in *private accounting*, which are employees working for businesses. *Public accounting* offers the next largest number of opportunities,

EXHIBIT 1.4

Accounting Jobs by Area



which involve accounting services such as auditing and taxation. Opportunities also exist in government and not-for-profit agencies, including business regulation and investigation of law violations.

Accounting specialists are highly regarded and their professional standing is often denoted by a certificate. Certified public accountants (CPAs) must meet education and experience requirements, pass an examination, and exhibit ethical character. Many accounting specialists hold certificates in

addition to or instead of the CPA. Two of the most common are the certificate in management accounting (CMA) and the certified internal auditor (CIA). Employers also look for specialists with designations such as certified bookkeeper (CB), certified payroll professional (CPP), certified fraud examiner (CFE), and certified forensic accountant (CrFA).

Demand for accounting specialists is strong. Exhibit 1.5 reports average annual salaries for several accounting positions. Salary variation depends on location, company size, professional designation, experience, and other factors. For example, salaries for chief financial officers (CFOs) range from under \$100,000 to more than \$1 million per year. Likewise, salaries for bookkeepers range from under \$30,000 to more than \$80,000.

Point: The largest accounting firms are EY, KPMG, PwC, and Deloitte.

Point: Census Bureau reports that higher education yields higher average pay:

Master's degree	\$73,738
Bachelor's degree	56,665
Associate's degree	39,771
High school degree	30,627
No high school degree	20,241

EXHIBIT 1.5

Accounting Salaries for Selected Positions

Point: U.S. Bureau of Labor reports higher education is linked to a lower unemployment rate:
Bachelor's degree or more . 3.2% Associate's degree 4.5% High school degree 9.0% No high school degree 9.0%

Point: For more salary info: AICPA.org Kforce.com

Field	Title (experience)	2016 Salary	2021 Estimate*
Public Accounting	Partner	\$240,000	\$265,000
	Manager (6–8 years)	109,500	121,000
	Senior (3–5 years)	88,000	97,000
	Junior (0–2 years)	60,500	67,000
Private Accounting	CFO	290,000	320,000
	Controller/Treasurer	180,000	199,000
	Manager (6–8 years)	98,500	109,000
	Senior (3–5 years)	81,500	90,000
	Junior (0–2 years)	58,000	64,000
Recordkeeping	Full-charge bookkeeper	60,500	67,000
	Accounts manager	58,000	64,000
	Payroll manager	59,500	65,500
	Accounting clerk (0–2 years)	39,500	43,500

^{*}Estimates assume a 2% compounded annual increase over current levels (rounded to nearest \$500).

Identify the following users of accounting information as either an (a) external or (b) internal user.

1. ____ Regulator

Shareholder

4. ___ Controller

7. ____ Production manager

2. ____ CEO

5. ____ Executive employee **6.** ____ External auditor

8. ____ Nonexecutive employee

NEED-TO-KNOW

Accounting Users

C1 C2



Do More: QS 1-1, QS 1-2, E 1-1, E 1-2, E 1-3

Solution

1. a **2.** b **3.** a **4.** b **5.** b **6.** a **7.** b **8.** a

FUNDAMENTALS OF ACCOUNTING

Accounting is guided by principles, standards, concepts, and assumptions. This section describes several of these key fundamentals of accounting.

Ethics—A Key Concept

For information to be useful, it must be trusted. This demands ethics in accounting. **Ethics** are beliefs that distinguish right from wrong. They are accepted standards of good and bad behavior.

Identifying the ethical path is a course of action that avoids casting doubt on one's decisions. For example, accounting users are less likely to trust an auditor's report if the auditor's pay depends on that client's success. To avoid such concerns, ethics rules are often set. For example, auditors are banned from direct investment in their client and cannot accept pay that depends on figures in the client's reports. Exhibit 1.6 gives a three-step process for making ethical decisions.

C.3

Explain why ethics are crucial to accounting.

1. Identify ethical concerns



Use personal ethics to recognize an ethical concern.

2. Analyze options



Consider all good and bad consequences.

3. Make ethical decision



Choose best option after weighing all consequences.

EXHIBIT 1.6

Ethical Decision Making

Accountants face ethical choices as they prepare financial reports. These choices can affect the salaries and bonuses paid to workers. They can even affect the success of products and services. Misleading information can lead to a wrongful closing of a division that harms workers and the business. There is an old saying: *Good ethics are good business*.

Fraud Triangle: Ethics under Attack The fraud triangle asserts that *three* factors must exist for a person to commit fraud: opportunity, pressure, and rationalization.

- Opportunity. A person must be able to commit fraud with a low risk of getting caught.
- *Pressure*, or incentive. A person must feel pressure or have incentive to commit fraud.
- Rationalization, or attitude. A person justifies the fraud and fails to see its criminal nature.

The key to dealing with fraud is to focus on prevention. It is less expensive and more effective to prevent fraud from happening than it is to detect it. By the time a fraud is discovered, the money is often gone and chances for recovery are slim.

Both internal and external users rely on internal controls to reduce the likelihood of fraud. *Internal controls* are procedures set up to protect company property and equipment, ensure reliable accounting, promote efficiency, and encourage adherence to policies. Examples are good records, physical controls (locks, passwords, guards), and independent reviews.

Point: A Code of Professional Conduct is available at AICPA.org.



Financial Pressure

Point: ACFE reports 86% of fraud victims recover none or only part of their losses.

-Decision Insight boxes highlight relevant items from practice



Cooking the Books Our economic and social welfare depends on reliable accounting. Some individuals forgot that and are now paying their dues. They include Hisao Tanaka of Toshiba, guilty of inflating income by \$1.2 billion over five years; Tsuyoshi Kikukawa of Olympus, guilty of hiding \$1.7 billion in losses; Bernard Ebbers of WorldCom, convicted of an \$11 billion accounting scandal; Andrew Fastow of Enron, guilty of hiding debt and inflating income; and Ramalinga Raju of Satyam Computers, accused of overstating assets by \$1.5 billion. ■



© Craig Ruttle/AP Images

Real company names are in bold magenta ·

Enforcing Ethics In response to major accounting scandals, like those at **Enron** and **WorldCom**, Congress passed the **Sarbanes-Oxley Act**, also called *SOX*, to help curb financial abuses at companies that sell their stock to the public. Compliance with SOX requires documentation and verification of internal controls and increased emphasis on internal control effectiveness. Failure to comply can yield financial penalties, stock market delisting, and criminal prosecution of executives. Management must issue a report stating that internal controls are effective. CEOs and CFOs who knowingly sign off on bogus accounting reports risk millions of dollars in fines and years in prison. **Auditors** also must verify the effectiveness of internal controls.

A listing of some of the more publicized accounting scandals in recent years follows.

Company	Alleged Accounting Abuses	
Tesco, Plc	. Inflated revenues and income, and deferred expenses	
WorldCom	. Understated expenses to inflate income and hid debt	
AOL Time Warner	Inflated revenues and income	
Fannie Mae	Inflated income	
Xerox	Inflated income	
Bristol-Myers Squibb	Inflated revenues and income	
Тусо	Hid debt and CEO evaded taxes	
Global Crossing	Inflated revenues and income	
Nortel Networks	Understated expenses to inflate income	
Enron	Inflated income, hid debt, and bribed officials	

Point: Sarbanes-Oxley Act requires a business that sells stock to disclose if it has adopted a code of ethics for its executives and the contents of that code.

oint: An audit examines whether

financial statements are prepared using GAAP. It does *not* ensure

Point: Bloomberg Businessweek reports that external audit costs

run about \$35,000 for start-ups.

up from \$15,000 pre-SOX.

absolute accuracy of the

statements.

Congress passed the **Dodd-Frank Wall Street Reform and Consumer Protection Act,** or *Dodd-Frank*, to (1) promote accountability and transparency, (2) put an end to the notion of "too big to fail," and (3) protect consumers from abusive financial services. Two of its notable provisions are:

- Clawback Mandates recovery (clawback) of excess incentive compensation.
- Whistleblower Requires the SEC to pay whistleblowers between 10% and 30% of any sanction exceeding \$1 million.

Generally Accepted Accounting Principles

Financial accounting is governed by concepts and rules known as **generally accepted accounting principles (GAAP).** GAAP aims to make information *relevant, reliable,* and *comparable*. Relevant information affects decisions of users. Reliable information is trusted by users. Comparable information aids in contrasting organizations.

In the United States, the **Securities and Exchange Commission** (SEC), a government agency, has the legal authority to set GAAP. The SEC oversees proper use of GAAP by companies that raise money from the public through issuance of stock and debt. The SEC has largely delegated the task of setting U.S. GAAP to the **Financial Accounting Standards Board** (FASB), which is a private-sector group that sets both broad and specific principles.

C₄

Explain generally accepted accounting principles and define and apply several accounting principles.

Point: State ethics codes require CPAs who audit financial statements to disclose areas where those statements fail to comply with GAAP. If CPAs fail to report noncompliance, they can lose their licenses and be subject to criminal and civil actions and fines

International Standards

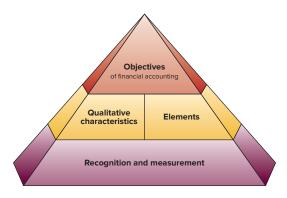
Our global economy creates demand by external users for comparability in accounting reports. To that end, the **International Accounting Standards Board (IASB)**, an independent group (consisting of individuals from many countries), issues **International Financial Reporting Standards (IFRS)** that identify preferred accounting practices. These standards are in many ways similar to, but sometimes different from, U.S. GAAP. Differences between U.S. GAAP and IFRS have been decreasing in recent years as the FASB and IASB pursued a process aimed at reducing inconsistencies.

Global View section discusses international accounting relevant to each chapter—it is located after each chapter's assignments

Conceptual Framework

The FASB **conceptual framework** consists broadly of the following:

- **Objectives**—to provide information useful to investors, creditors, and others.
- Qualitative Characteristics—to require relevant, reliable, and comparable information.
- **Elements**—to define items that financial statements can contain.
- Recognition and Measurement—to set criteria for an item to be recognized as an element; and how to measure it.



Point: For updates on the FASB and IASB conceptual framework, check <u>FASB.org</u> or <u>ifrs.org</u>.

Principles and Assumptions of Accounting Accounting principles (and assumptions) are of two types. *General principles* are the assumptions, concepts, and guidelines for preparing financial statements; these are shown in purple font with white shading in

Exhibit 1.7, along with key assumptions in red font with white shading. *Specific principles* are detailed rules used in reporting business transactions and events; they often arise from rulings of authoritative groups and are described as we encounter them.

Accounting Principles

General principles consist of at least four basic principles, four assumptions, and two constraints.

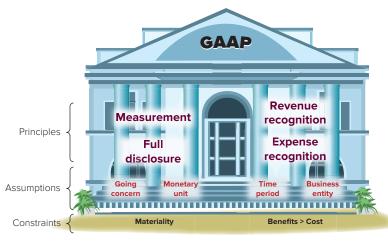


EXHIBIT 1.7

Building Blocks for GAAP

- Measurement The measurement principle, also called the cost principle, prescribes that accounting information is based on actual cost (with possible later adjustments to market). Cost is measured on a cash or equal-to-cash basis. This means if cash is given for a service, its cost is measured by the cash paid. If something besides cash is exchanged (such as a car traded for a truck), cost is measured as the cash value of what is given up or received. The cost principle emphasizes reliability and verifiability, and information based on cost is considered objective. Objectivity means that information is supported by independent, unbiased evidence; it is more than an opinion. Later chapters introduce fair value.
- Revenue recognition Revenue (sales) is the amount received from selling products and services. The **revenue recognition principle** prescribes that revenue is recognized (1) when

Point: A company pays \$500 for equipment. The cost principle requires it be recorded at \$500 It makes no difference if the owner thinks this equipment is worth \$700.