SECTION B

CHAPTER TEACHING MATERIALS

Chapter 1

PERSONAL FINANCIAL PLANNING IN ACTION

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| **CHAPTER OVERVIEW** |

This chapter provides the foundation for *Focus on Personal Finance* and the study of financial planning. The chapter starts with a discussion of social and economic factors that make up the financial planning environment. Next, the main components of financial planning (obtaining, planning, saving, borrowing, spending, managing risk, investing, and retirement and estate planning) are discussed. This is followed by guidelines for creating personal financial goals. Then, the opportunity costs, or trade-offs, of decisions are considered in relation to personal and financial resources. This is followed by coverage. Finally, an overview of the financial planning process along with strategies for creating and using a financial plan are introduced.

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| LEARNING OBJECTIVES | CHAPTER SUMMARY |

After studying this chapter, students will be able to:

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| Obj. 1 | Identify social and economic influences on personal financial goals and decisions. | Financial decisions are affected by a person’s life situation (income, age, household size, health), personal values, and economic factors (prices, interest rates, and employment opportunities). The major elements of financial planning are obtaining, planning, saving, borrowing, spending, managing risk, investing, and retirement and estate planning. |
| Obj. 2 | Develop personal financial goals. | Financial goals should take a S-M-A-R-T approach with goals that are: Specific, Measurable, Action-oriented, Realistic, and Time-based. |
| Obj. 3 | Calculate time value of money situations associated with personal financial decisions. | Every decision involves a trade-off with things given up. Personal opportunity costs include time, effort, and health. Financial opportunity costs are based on the time value of money. Future value and present value calculations enable you to measure the increased value (or lost interest) that results from a saving, investing, borrowing, or purchasing decision. |
| Obj. 4 | Implement a plan for making personal financial and career decisions. | Personal financial planning involves the following process: (1) determine your current financial situation; (2) develop financial goals; (3) identify alternative courses of action; (4) evaluate alternatives; (5) create and implement a financial action plan; and (6) review and revise the financial plan. |

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| **INTRODUCTORY ACTIVITIES** |

* Ask students to comment on the “3 Steps to Financial Literacy" feature at the start of the chapter (p. 2).
* Point out the learning objectives (p. 3) in an effort to highlight the key points in the chapter.
* Provide an overview of the “Your Personal Financial Plan Sheets” for this chapter (p. 3).
* Ask students to provide examples of social and economic factors that have increased the importance of personal financial planning today.
* Have students answer these three questions as individuals or in small discussion groups:
  1. What do you currently know about personal financial planning?
  2. What questions do you need answers for about personal finance?
  3. How and where might you obtain answers to the questions you have about personal finance?

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| **CHAPTER 1 OUTLINE** |

I. Making Financial Decisions

A. Your Life Situation and Financial Planning

B. Financial Planning in Our Economy

1. Global Influences

2. Inflation

3. Interest Rates

C. Financial Planning Activities

1. Obtaining
2. Planning
3. Saving
4. Borrowing
5. Spending
6. Managing risk
7. Investing
8. Retirement and Estate Planning
9. Developing and Achieving Financial Goals
   * 1. Types of Financial Goals
     2. Goal-Setting Guidelines
10. Opportunity Costs and the Time Value of Money
    1. Personal Opportunity Costs
    2. Financial Opportunity Costs

1. Interest Calculations

2. Future Value of a Single Amount

3. Future Value of a Series of Deposits

4. Present Value of a Single Amount

5. Present Value of a Series of Deposits

IV. A Plan for Personal Financial Planning

A. Step 1: Determine Your Current Financial Situation

B. Step 2: Develop Your Financial Goals

C. Step 3: Identify Alternative Courses of Action

D. Step 4: Evaluate Your Alternatives

1. Consequences of Choices

2. Evaluating Risk

3. Financial Planning Information Sources

E. Step 5: Create and Implement Your Financial Action Plan

F. Step 6: Review and Revise Your Plan

G. Career Choice and Financial Planning

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| **CHAPTER 1 APPENDIX:** | **Time Value of Money** |

I. Interest Rate Basics

II. Future Value of a Single Amount

III. Future Value of a Series of Equal Amounts (an Annuity)

IV. Present Value of a Single Amount

V. Present Value of a Series of Equal Amounts (an Annuity)

VI. Using Present Value to Determine Loan Payments

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| CHAPTER 1 LECTURE OUTLINE | | Instructional Suggestions | | |
| I. MAKING FINANCIAL DECISIONS (p. 3)  **Your Life Situation and Financial Planning (p. 3)**   * Personal financial planning is the process of managing your money to achieve personal economic satisfaction. * A **financial plan** is a formalized report that summarizes your current financial situation, analyzes your financial needs, and recommends a direction for your financial activities. * Financial activities may be organized on the basis of spending, saving, investing, and borrowing decisions.  1. The financial planning environment is affected by life situation, personal values, and economic factors. 2. The personal factors include your age, income, size of household, and your attitudes and beliefs. Your life situation is affected by various personal events. 3. Values are personal beliefs and ideas that a person considers correct, desirable, and important.   Financial Planning in Our Economy (p. 4)   1. Economic conditions (supply and demand, prices, and interest rates) and economic institutions (business, labor, and government) also affect personal finance. 2. **Economics** is the study of how wealth is created and distributed. 3. The Federal Reserve System, referred to as **The Fed**, is our central banking system. It influences the money supply by borrowing funds, changing interest rates, and buying or selling government securities. 4. The spending by Americans for foreign goods and services and the investment in our country by foreign companies affect the interest rates and prices in our society. 5. The main cause of inflation is an increase in demand without a comparable increase in supply. Inflation is most harmful to people who live on fixed incomes. | | 1. **Use PPT slides 1-1 to 1-6** 2. Ask students to name common financial difficulties faced by students, households, and older consumers. 3. **Text Highlight:** Use Exhibit  1-1 (p. 5) to provide an overview of life factors that affect financial decisions as well as common goals and activities.      1. **Discussion Question:** How would various personal events affect personal financial decisions? 2. **Use PPT slides 1-7 to 1-11** |
| 1. Consumer prices, consumer spending, interest rates and other economic factors affect the financial planning environment. 2. **Inflation** is a rise in the general level of prices. In times of inflation, the buying power of the dollar decreases. 3. The **rule of 72** can be used to determine how fast prices will double; divide 72 by the current inflation rate. For example, with inflation of six percent, prices will double in 12 years (72 / 6 = 12). | | 1. **Text Highlight:** Exhibit 1-2 (p. 6) provides an overview of the participants and components of the financial system in which personal financial decision are made. 2. **Assignment:** Have students use online research and information from friends and relatives to compare current prices with those of five or ten years ago. |

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| CHAPTER 1 LECTURE OUTLINE | | Instructional Suggestions | | |
| 1. **Interest rates** represent the cost of money. Like everything else, money has a price. The forces of supply and demand influence interest rates. As the amount saved and invested by consumers increases the supply of money, interests rates tend to decrease. 2. But as consumer, business, government, and foreign borrowing increase, the demand for money, interest rates also tend to increase.   **Financial Planning Activities (p. 7)**   1. The eight major components of personal financial planning are: 2. obtaining financial resources 3. planning for current living expenses and future financial security 4. saving for emergencies, unexpected bills, replacement of major items, and special purchases 5. borrowing in a responsible manner 6. spending to meet daily living needs 7. managing risk through insurance decisions 8. investing for long‑term financial security 9. retirement and estate planning | | 1. **Discussion Question:** What types of attitudes in our society contribute to higher inflation? 2. **Discussion Question:** Interest rates influence most aspects of our economic existence. Why is knowledge of changing interest rates a significant aspect of personal financial planning? 3. **Use PPT slide 1-12.** 4. **Practice Quiz 1-1** (p. 8)  * **Text Reference:** “Apply Yourself” activity (p. 8). |
| II. DEVELOPING AND ACHIEVING FINANCIAL GOALS (p. 9)   1. Many Americans have money problems due to: 2. poor planning 3. weak financial habits 4. extensive numbers of marketplace influences in the form of advertising, selling efforts, and product availability. | | 1. **Use PPT slides 1-13** 2. **Discussion Question:** Why do Americans seem to have more money problems than people in other countries? |
| Types of Financial Goals (p. 9)   1. *Short-term goals* are those to be achieved within the next year or so, such as saving for an annual vacation or paying off small debts. 2. *Intermediate goals* have a time frame of two to five years. 3. *Long-term goals* involve financial plans that may be more than five years off, such as retirement and college savings. | | 1. Have students work in teams (3 or 4 students) to create financial goals for various life situations—students, young singles, young parents, middle aged couple, and older person. |

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| CHAPTER 1 LECTURE OUTLINE | | Instructional Suggestions | | |
| 1. *Consumable-product goals* usually occur on a periodic basis involving items used up relatively quickly, such as food, clothing, or entertainment spending. 2. *Durable-product goals* usually involve infrequent, expensive items, such as appliances, motor vehicles, and sporting equipment. Most durable goals consist of tangible items. In contrast, however, many people overlook *intangible goals*. These goals may relate to personal relationships, health, education, and leisure. Goal setting for these life circumstances is also necessary for a person’s overall well-being.   Goal-Setting Guidelines (p. 9)   1. Financial goals should take a SMART approach, in that they are:   **S** — *specific,* know exactly what your goals are.  **M** — *measurable* by a specific amount.  **A** — *action-oriented,* providing the basis for the  Personal financial activities.  **R** — *realistic,* involving goals based on your income  and life situation.  **T** — *time-based,* indicating a time frame for achieving  the goal. | | 1. **Text Highlight:** Exhibit 1-1 (p. 5) provides an overview of common financial goals and activities for different life situations. 2. **Text Highlight:** “Personal Finance in Practice” (p. 10) will guide students through the goal-setting process. 3. **Use PPT slides 1-14** 4. **Practice Quiz 1-2** (p. 10)  * **Text Reference:** “Apply Yourself” activity (p. 10). |
| III. OPPORTUNITY COSTS AND THE TIME VALUE OF MONEY (p. 10)   1. In every financial decision, you will sacrifice something in order to obtain something else that you consider desirable. Opportunity costs may be viewed in terms of both personal and financial resources.   Personal Opportunity Costs (p. 11)   1. The most common personal opportunity cost is time. Time spent in studying, working, or shopping cannot be used for other activities.   Financial Opportunity Costs (p. 11)   1. Like time, money allocated for one purpose cannot be used for another. 2. The **time value of money** refers to the increase of an amount of money as a result of interest earned. 3. Computation of interest is based on: 4. the amount of the savings 5. the annual interest rate 6. the length of time the money remains deposited. | | 1. **Use PPT slide 1-15.** 2. **Discussion:** Ask students to list opportunity costs involved in various financial decisions. 3. **Chapter Appendix:** provides expanded coverage of future value and present value formulas and tables along with examples, sample problems, and answers. 4. **Use PPT slides 1-16, 1-17, 1-18.** |

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| CHAPTER 1 LECTURE OUTLINE | | Instructional Suggestions | | |
| 1. **Future value**, also referred to as **compounding**, is the amount to which current savings will increase based on a certain interest rate and a certain time period. Future value calculations may be used for both a single amount and equal deposits. (See Exhibit 1-3.) 2. **Present value**, also referred to as **discounting**, is the current value for a future sum based on a certain interest rate and a certain time period. Present value calculations may also be used for both a single amount and a series of amounts. (See Exhibit 1-3.) | | 1. **Use PPT slides 1-19 to 1-44.** 2. **Text Highlight:** “Figure It Out” (p. 14) provides two detailed examples for time vale of money applications.  * **Practice Quiz 1-3** (p. 15) * **Text Reference:** “Apply Yourself” activity (p. 15). |
| IV. A PLAN FOR PERSONAL FINANCIAL PLANNING (p. 15)  Step 1. Determine Your Current Financial Situation  (p. 16)   1. Determine your current financial situation with regard to income, savings, living expenses, and debts.   Step 2. Develop Your Financial Goals (p. 16)   1. Analyze your financial values and goals to set a course for action.   Step 3. Identify Alternative Courses of Action (p. 17)   1. Various alternatives associated with financial decision making are usually based on deciding to: 2. *Continue the same course of action*; for example, you may determine that the amount saved each month is still appropriate. 3. *Expand the current situation*; you may choose to save a greater amount each month. 4. *Change the current situation*; you may decide to buy U.S. savings bonds instead of using a regular savings account. 5. *Take a new course of action*; you conclude to use your monthly saving budget to pay off credit card debts. 6. Creativity in decision making is vital to making effective choices. The more alternatives that are considered, the more likely a person or household will make wise financial choices. | | 1. **Use PPT slide 1-45 to 1-53.** 2. **Discussion Question:** Why do some decisions require more time and effort than others? 3. **Tex Highlight:** The visual framework on page 15 provides an overview of the three areas to which income will be allocated. 4. **Text Highlight:** Discuss the boxed example for each step of the Financial Planning Process and have students answer the questions associated with the example. Also, encourage students to answer the questions associated with the “Example from Your Life” element. 5. **Class Exercise:** Select a situation (such as obtaining funds to start a business or getting work-related experience without a job) and have students create a list of alternatives for this problem. |

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| CHAPTER 1 LECTURE OUTLINE | | Instructional Suggestions | | |
| Step 4. Evaluate Your Alternatives (p. 17)   1. Every decision closes off alternatives. The *opportunity cost* is what a person gives up by making a choice. This cost, commonly referred to as the trade‑off of a decision, sometimes cannot be measured in dollars. 2. Decision making will be an ongoing part of your personal and financial existence. Thus, you will need to consider the lost opportunities that result from your decisions. 3. Uncertainty is a part of every decision. In many financial decisions, identifying and evaluating risk is a difficult task. The best way to consider risk in such decisions is to gather information based on your | | 1. **Text Highlight:** Page 18 provides information on five types of risks faced in many financial decisions. 2. **Text Highlight:** The "Personal Finance in Practice" feature (page 19) contrasts two paths for financial security. |
| experiences and those of others and refer to the research of financial planning sources.   1. Relevant information is required at each stage of the financial planning process.   Step 5. Create and Implement Your Financial Action Plan (p. 19)   1. Develop a plan of action to achieve your goals.   Step 6. Review and Revise Your Plan (p. 20)   1. Decision making is a circular, ongoing process in which current decisions influence future choices.   **V. CAREER CHOICE AND FINANCIAL PLANNING (p. 22)**   1. The average person changes jobs seven times during a lifetime. 2. The lifework you select is a key to your financial well-being and personal satisfaction. 3. Like other decisions, career choice and professional development alternatives have risks and opportunity costs. 4. The steps of the financial planning process can provide an approach to career planning, advancement, and career change. | | 1. **Text Highlight:** Exhibit 1-5 (p. 20) presents an overview of a financial plan which includes examples of goals, short-term activities, and long-term strategies. 2. **Text Highlight:** “From the Pages of *Kiplinger’s Personal Finance*” (p. 21). 3. **Text Reference:** Appendix B provides coverage of a plan for obtaining employment and professional advancement. 4. **Practice Quiz 1-4** (p. 22)  * **Text Reference:** “Apply Yourself” activity (p. 22). |

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| **CONCLUDING ACTIVITIES** |

* Discuss “Your Personal Finance Dashboard" and possible financial planning actions (p. 23).
* Point out the chapter summary (p. 24) and key terms in the text margin.
* Assign and discuss selected end-of-chapter Problems, Questions, Case in Point, and Continuing Case.
* Discuss “Your Personal Financial Plan” worksheets.
* Encourage students to maintain a “Daily Spending Diary” (p. 27 and Appendix D)
* Use the Chapter Quiz in the *Instructor’s Manual*.
* Have students start a journal of personal finance information and readings that they encounter online and from other sources such as the newspaper, *BusinessWeek*, *The Wall Street Journal*, news magazines, and personal business periodicals such as *Money, Kiplinger’s Personal Finance*, *Consumer Reports,* observations of daily business activities, and conversations with others.
* Have students create a case problem for class based on a personal financial experience they have experienced or observed.

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| ***YOUR PERSONAL FINANCIAL PLAN* WORKSHEETS FOR USE WITH** | |
| **CHAPTER 1** |  |
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| Sheet 1 | Personal financial data |
| Sheet 2 | Setting personal financial goals |
| Sheet 3 | Achieving financial goals using time value of money |
| Sheet 4 | Planning your career |

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| **CHAPTER 1 QUIZ ANSWERS** | |
| True‑False | Multiple Choice | |
| 1. T (p. 4) | 6. B (p. 11) | |
| 2. F (p. 16) | 7. C (p. 20) | |
| 3. T (p. 6) | 8. D (p. 4) | |
| 4. T (p. 8) | 9. A (p. 7) | |
| 5. F (p. 3) | 10. B (p. 19-20 | |

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| **CHAPTER 1 QUIZ** |

## TRUE-FALSE

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|  | A major purpose of personal financial planning is future economic security. |
| 1. 2 | Personal financial planning starts by creating a plan of action. |
|  | Inflation reduces the buying power of a dollar. |
|  | Savings and investment programs are the main method for achieving financial goals. |
|  | A financial plan is a list of a family’s spending for the next month. |

## MULTIPLE CHOICE

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| 1. \_ | Opportunity cost refers to   1. your personal values. 2. trade-offs when a decision is made. 3. current economic conditions. 4. commonly accepted financial goals. |
| 1. \_ | The final step in the financial planning process is to   1. create a financial plan of action. 2. develop financial goals. 3. review and revise your actions. 4. implement your financial plan. |
|  | Economics refers to   1. setting personal financial goals. 2. planning future financial security. 3. changes in prices due to supply and demand. 4. the study of wealth. |
|  | Career planning is the part of the \_\_\_\_\_\_\_\_\_\_ component of financial planning.   1. obtaining 2. sharing 3. saving 4. planning |
|  | Financial strategies refer to   1. the process of predicting your future financial situation. 2. courses of action to achieve financial goals. 3. resources an individual has available for investing. 4. ideas or principles that are considered correct, desirable, or important. |

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| **SUPPLEMENTARY LECTURE A** |

Financial Planning Through the Your Life

## People in their 20s-30s should…

* start saving regularly and invest for the long haul for retirement, children’s education, or a down payment on a house.
* make contributions to tax‑deductible retirement plans.
* create a diversified portfolio of common stock.
* have adequate health and property insurance; however, consider going without life insurance if they have no dependents.

## People in their 40s-50s should…

* maximize contributions to tax‑advantaged retirement plans.
* plan for adequate funds for children’s college education.
* use stocks and stock funds for the largest share of long‑term investments.
* review life, health, and home insurance for adequate coverage.

## People 50-plus should…

* not feel they have to preserve all their wealth for others.
* be careful about retiring too young and not have adequate funds for what may be 30 more years.
* maintain earnings potential with a part‑time job after retirement.
* not put all funds in fixed‑income securities such as bank accounts and bonds.
* consider a long‑term care insurance policy.

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| **SUPPLEMENTARY LECTURE B** |

The Certified Financial Planner Board of Standards conducted a survey of financial planning practitioners to identify common mistakes of their clients. The most frequent responses, in order of highest to lowest, were:

1. Don’t set measurable financial goals.
2. Make a financial decision without understanding its effect on other financial issues.
3. Confuse financial planning with investing.
4. Neglect to re-evaluate their financial plant periodically.
5. Think that financial planning is only for the wealthy.
6. Think that financial planning is something you can do when you get older.
7. Think that financial planning is the same as retirement planning.
8. Wait until they have a money crisis to begin financial planning.
9. Expect unrealistic return on investments.
10. Think that using a financial planner means losing control of their decisions.
11. Believe that financial planning is primarily tax planning.

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| **ANSWERS TO PRACTICE QUIZZES, PROBLEMS,** | |
| **QUESTIONS, AND CASES** |  | |

## PRACTICE QUIZZES

## Practice Quiz 1-1 (p. 8)

1. How do personal and economic factors affect the operation of the financial system and personal financial decisions?

Personal factors, such as income, household size, age, and personal value, and economic factors including global business activities, inflation, and interest rates, will influence a person's daily spending activities and long-term financial decisions through the amount of income available, buying needs, and selection of investments.

2. For each of the following situations, indicate if the person would tend to “suffer” or tend to “benefit” from inflation.

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| A person with money in a savings account | Suffer |
| A person who is borrowing money. | Benefit |
| A person who is lending money. | Suffer |
| A person receiving a fixed income amount. | Suffer |

3. Listed here are the eight the main components of personal financial planning. Circle one or more areas and describe an action that you might need to take in the next few months or years.

Answers will vary.

## Practice Quiz 1-2 (p. 10)

1. What are some examples of long-term goals?

Long-term goals are financial objectives more than just a few years off (usually more than five years), such as retirement savings, money for children’s college education, or other long-term savings goals.

2. What are the main characteristics of useful financial goals?

Useful financial goals should be: (1) specific, (2) measurable, (3) action-oriented, (4) realistic,

and (5) time-based.

3. Match the following common goals to the life situation of the people listed.

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| A. Pay off student loans | C | A young couple without children |
| B. Start a college savings fund | D | An older person living alone |
| C. Increase retirement contributions | A | A person who just completed college |
| D. Finance long-term care | B | A single mother with a pre-school daughter |

## Practice Quiz 1-3 (p. 15)

1. What are some examples of personal opportunity costs?

Personal opportunity costs include time used for one activity that cannot be used for other activities. Other personal opportunity costs relate to health, e.g. poor eating habits, lack of sleep, or avoiding exercise.

2. What does time value of money measure?

Time value of money calculations (future value and present value) are used to compute interest earned and the value of a sum of money at a later date.

3. Use the time value of money tables in Exhibit 1-3 to calculate the following:

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| a. | The future value of $100 at 7 percent in 10 years | $100  1.967 = $196.70 |
| b. | The future value of $100 a year for six years earning 6 percent | $100  6.975 = $697.50 |
| c. | The present value of $500 received in eight years with an interest rate of 8 percent. | $500  0.54 = $270 |

## Practice Quiz 1-4 (p. 23)

1.What actions might a person take to identify alternatives when making a financial decision?

A person might: (1) continue the same course of action; (2) expand the current situation; (3) change the current situation; or (4) take a new course of action.

2.Why are career planning activities considered to be personal financial decisions?

Like other decisions, career choice and professional development alternatives have risks and opportunity costs. Career choices require periodic evaluation of trade-offs related to personal, social, and economic factors. Changing personal and social factors will require you to continually assess your work situation. The steps of the financial planning process can provide an approach to career planning, advancement, and career change.

3.For the following situations, identify the type of risk being described.

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| PERSONAL | not getting proper rest and exercise |
| LIQUIDITY | not being able to obtain cash from a certificate of deposit before the maturity date |
| INTEREST RATE | taking out a variable rate loan when rates are expected to rise |
| INCOME | training for a career field with low potential demand in the future |

4. For the following main sources of personal finance information, list a specific web site, organization or person who you might contact in the future.

Student answers will vary.

### **DISCUSSION QUESTIONS (p. 24)**

1. In your opinion, what is the main benefit of wise financial planning?

While student answers will vary, most students will address issues related to avoiding difficulties,

reducing debt, and long-term security.

1. What factors in an economy might affect the level of interest rates?

While inflation is the main factor that affects the level of interest rates, other influences include company risk and political uncertainty.

1. Talk with several people about their financial goals. How have their employment situations

affected their financial decisions?

These responses will help students better understand the connection between career planning and personal financial decisions. Education and training requirement for a career, income level, location of employment, and number of hours on the job are some of the factors that affect personal finance activities.

1. What are possible drawbacks associated with not considering opportunity costs and

time value of money when making financial decision?

If the trade-offs that occur with every decision are overlooked, a person may make choices that have unexpected consequences. For example, a failure to consider the time needed for studies when working full time and going to school can result in poor grades and wasted tuition money.

1. Describe risks that you might encounter when making financial decisions over the next few years.

Students might mention inflation, income uncertainty, higher interest rates, changing family situations, and poor money management decisions.

## PROBLEMS (p. 25)

(Note: Some of these problems require the use of the time value of money tables in the chapter appendix, or a financial calculator or spreadsheet software.)

**1.** Using the rule of 72, approximate the following amounts. (LO 1.1)

*a.* If the value of land in an area is increasing 6 percent a year, how long will it take for property values to double?

About 12 years (72 / 6)

*b.* If you earn 10 percent on your investments, how long will it take for your money to double?

About 7.2 years (72 / 10)

*c.* At an annual interest rate of 5 percent, how long will it take for your savings to double?

About 14.4 years (72 / 5)

**2.** In 2011, selected automobiles had an average cost of $16,000. The average cost of those same automobiles is now $20,000. What was the rate of increase for these automobiles between the two time periods? (LO 1.1)

($20,000 ‑ $16,000) / $16,000 = .25 (25 percent)

**3.** A family spends $46,000 a year for living expenses. If prices increase by 3 percent a year for the next three years, what amount will the family need for their living expenses after three years? (LO 1.1)

46,000  1.09 = $50,140; or using Exhibit 1-A: $46,000  1.093 = $50,278

**4.** Ben Collins plans to buy a house for $220,000. If the real estate in his area is expected to increase in value by 2 percent each year, what will its approximate value be seven years from now? (LO 1.1)

$220,000  1.149 = $252,780; or using Exhibit 1-A: $220,000  1.149 = $252,780

**5.** What would be the yearly earnings for a person with $6,000 in savings at an annual interest rate of 2.5 percent? (LO 1.3)

$6,000  0.025 = $150

**6.** Using time value of money tables (Exhibit 1–3 or chapter appendix tables), calculate the following. (LO 1.3)

*a.* The future value of $550 six years from now at 7 percent.

$550  1.501 = $825.55 (Exhibit 1-A)

*b.* The future value of $700 saved each year for 10 years at 8 percent.

$700  14.487 = $10,140.90 (Exhibit 1-B)

*c.* The amount a person would have to deposit today (present value) at a 5 percent interest rate to have $1,000 five years from now.

$1,000  0.784 = $784 (Exhibit 1-C)

*d.* The amount a person would have to deposit today to be able to take out $500 a year for 10 years from an account earning 8 percent.

$500  6.710 = $3,355 (Exhibit 1-D)

**7.** If you desire to have $10,000 for a down payment for a house in five years, what amount would you need to deposit today? Assume that your money will earn 4 percent. (LO 1.3)

$10,000  0.822 = $8,220 (Exhibit 1-C)

**8.** Pete Morton is planning to go to graduate school in a program of study that will take three years. Pete wants to have $8,000 available each year for various school and living expenses. If he earns 4 percent on his money, how much must he deposit at the start of his studies to be able to withdraw $8,000 a year for three years? (LO 1.3)

$8,000  2.775 = $22,200 (Exhibit 1-D)

**9.** Carla Lopez deposits $3,000 a year into her retirement account. If these funds have an average earning of 8 percent over the 40 years until her retirement, what will be the value of her retirement account? (LO 1.3)

$3,000  259.060 = $777,180 (Exhibit 1-B)

**10.** If a person spends $10 a week on coffee (assume $500 a year), what would be the future value of that amount over 10 years if the funds were deposited in an account earning 3 percent? (LO 1.3)

$500  11.464 = $5,732 (Exhibit 1-B)

**11.** A financial company that advertises on television will pay you $60,000 now for annual payments of $10,000 that you are expected to receive for a legal settlement over the next 10 years. If you estimate the time value of money at 10 percent, would you accept this offer? (LO 1.3)

The present value of the annual payment is calculated as: $10,000 X 6.145 = $61,450

The $60,000 being offered now is less than the present value of the future flow.

**12.** Tran Lee plans to set aside $2,200 a year for the next seven years, earning 3 percent. What would be the future value of this savings amount? (LO 1.3)

$2,200 X 7.662 = (future value of a series) = $16,856.40

**13.** If you borrow $8,000 with a 5 percent interest rate to be repaid in five equal payments at the end of the next five years, what would be the amount of each payment? (Note: Use the present value of an annuity table in the chapter appendix.) (LO 1.3)

$8,000 / 4.329 = $1,848

**CASE IN POINT (p. 26)**

1. In each situation, what are the main financial planning issues that need to be addressed?

Situation 1: Fran and Ed must balance their current living expenses with increasing college costs, covering long-term care facility living expenses for Fran's mother, and saving for retirement.

Situation 2: Patrick needs to consider his spending activities in relation to the money he has available in his emergency fund, while also taking actions related to finding employment.

Situation 3: Nina must decide whether to spend or save these funds, and how. She should consider various alternatives for both short-term and long-term financial decisions.

2. What additional information would you like to have before recommending actions in each situation?

Student answers will vary. Some possible answers include:

Situation 1: Information for this situation might include: Fran and Ed's current ability to contribute to both a college savings fund and deposits to the their retirement account; mortgage and other debts; potential for reducing current living expenses and increasing current income.

Situation 2: Knowing the additional training background and job skills of Patrick, along with information about his network of contacts and employment opportunities in the area, would be of value to guide his next actions.

Situation 3: Information about Nina's debts, current spending needs, and long-term financial goals would be of value to guide her decision. Also, using time value of money calculations to determine the future value of various savings and investment decisions as well using present value calculations to determine amounts that should be saved to achieve various financial goals might be considered.

3. Based on the information provided, what actions would you recommend in each situation?

Student answers will vary. However, suggested answers are likely to include:

Situation 1: The Blakes need to continue to set aside funds for the education of their children and make deposits to their retirement fund. The family may also consider actions for reducing current living expenses and increasing household income.

Situation 2: Patrick might be in contact with his professional and personal network of contacts to obtain information about employment opportunities. He might also take actions to reduce unnecessary spending and consider part-time employment. Also doing volunteer work and community service during this time could expand his resume and increase his network of career contacts.

Situation 3: As noted in the case, possible actions might relate to paying off credit card bills, saving a down payment on a house, making a despot to a tax-deferred retirement account, obtaining additional career training, and making charitable contributions. Student choices will vary; be sure students give specific reasons for actions they propose.

**CONTINUING CASE (p. 26)**

1. Using *Your Personal Plan Sheet #2,* what are Jamie Lee’s short term financial goals? How do they compare to her intermediate financial goals?

As stated in the text, financial goals should take the SMART approach: **S**pecific, **M**easureable, **A**ction-oriented, **R**ealistic, and **T**ime-based.

|  |  |
| --- | --- |
| Jamie Lee’s Short-term Financial Goals include: | Jamie Lee’s Intermediate Financial Goals include: |
| Depositing $1,800 per year in her savings account | Saving $9,000 needed to open a cupcake café within the next five years |
| Paying $50 per month towards her credit card balance in order to eliminate the balance |  |

2. Browse Jamie Lee’s current financial situation. Using the *SMART* approach, what recommendations would you make for her to achieve her long-term goals?

Student responses will vary, but may include:

Jamie Lee will save an additional $20 per month in her savings account to reduce the student loan debt amount.

Jamie Lee will remain living with a roommate and sharing expenses for the next five years.

3. Name two opportunity costs that would be considered in Jamie Lee’s situation?

Student responses will vary, but may include various answers that will demonstrate what Jamie Lee may sacrifice in order to obtain something else:

* Jamie Lee will remain living with a roommate in order to save money and not be able to consider a place of her own.
* Jamie Lee will not have free time to spend with friends while balancing a part-time job and full-time college courses.

4. Jamie Lee needs to save a total of $9,000 in order to get started in her cupcake café venture. She is presently depositing $1,800 a year in a regular savings account earning 2% interest. How much will she have accumulated five years from now in this regular savings account, assuming she will be leaving her Emergency Fund savings account balance untouched and for a rainy day?

Jamie is depositing $1,800 per year for five years in her “special” savings account that is earning a constant 2% interest per year. She will need to find out what is the future value of a series of deposits in order to know if she has the $9,000 down payment needed.

Using the table found in Exhibit 1-B: *Future Value of an Annuity* on page 41, the calculations are as follows:

$1,800 \* 5.204 = **$9,367.20**

Yes. Jamie Lee will have enough saved in five years to have the $9,000 down payment needed to open her cupcake café.

**DAILY SPENDING DIARY (p. 27)**

This activity will allow students to better understand their spending patterns and will provide information to make wiser short-term money management decisions and to enhance their long-term financial security.