

■ Solutions to Problems

P8-1. Rate of return: $r_t = \frac{(P_t - P_{t-1} + C_t)}{P_{t-1}}$

LG 1: Basic

a. Investment X: Return = $\frac{(\$21,000 - \$20,000 + \$1,500)}{\$20,000} = 12.50\%$

Investment Y: Return = $\frac{(\$55,000 - \$55,000 + \$6,800)}{\$55,000} = 12.36\%$

- b. Investment X should be selected because it has a higher rate of return for the same level of risk.

P8-2. Return calculations: $r_t = \frac{(P_t - P_{t-1} + C_t)}{P_{t-1}}$

LG 1: Basic

Investment	Calculation	$r_t(\%)$
A	$(\$1,100 - \$800 + \$100) \div \800	25.00
B	$(\$118,000 - \$120,000 + \$15,000) \div \$120,000$	10.83
C	$(\$48,000 - \$45,000 + \$7,000) \div \$45,000$	22.22
D	$(\$500 - \$600 + \$80) \div \600	-3.33
E	$(\$12,400 - \$12,500 + \$1,500) \div \$12,500$	11.20

P8-3. Risk preferences

LG 1: Intermediate

- The risk-neutral manager would accept Investments X and Y because these have higher returns than the 12% required return and the risk doesn't matter.
- The risk-averse manager would accept Investment X because it provides the highest return and has the lowest amount of risk. Investment X offers an increase in return for taking on more risk than what the firm currently earns.
- The risk-seeking manager would accept Investments Y and Z because he or she is willing to take greater risk without an increase in return.
- Traditionally, financial managers are risk averse and would choose Investment X, since it provides the required increase in return for an increase in risk.

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Table of Contents Solution Manual Of Fm By Gitman

1. Understanding the eBook Solution Manual Of Fm By Gitman
 - The Rise of Digital Reading Solution Manual Of Fm By Gitman
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Of Fm By Gitman
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual Of Fm By Gitman
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Of Fm By Gitman
 - Personalized Recommendations
 - Solution Manual Of Fm By Gitman User Reviews and Ratings

- Solution Manual Of Fm By Gitman and Bestseller Lists
- 5. Accessing Solution Manual Of Fm By Gitman Free and Paid eBooks
 - Solution Manual Of Fm By Gitman Public Domain eBooks
 - Solution Manual Of Fm By Gitman eBook Subscription Services
 - Solution Manual Of Fm By Gitman Budget-Friendly Options
- 6. Navigating Solution Manual Of Fm By Gitman eBook Formats
 - ePub, PDF, MOBI, and More
 - Solution Manual Of Fm By Gitman Compatibility with Devices
 - Solution Manual Of Fm By Gitman Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Of Fm By Gitman
 - Highlighting and Note-Taking Solution Manual Of Fm By Gitman
 - Interactive Elements Solution Manual Of Fm By Gitman
- 8. Staying Engaged with Solution Manual Of Fm By Gitman
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Of Fm By Gitman
- 9. Balancing eBooks and Physical Books Solution Manual Of Fm By Gitman
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Of Fm By Gitman
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual Of Fm By Gitman
 - Setting Reading Goals Solution Manual Of Fm By Gitman
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual Of Fm By Gitman
 - Fact-Checking eBook Content of Solution Manual Of Fm By Gitman
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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