Analysis of Investments and Management of Portfolios 9th Edition Brown Test Bank

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CHAPTER 1—THE INVESTMENT SETTING

TRUE/FALSE

1.	The rate of exchange rate of interest.	between c	ertain future dollars and certain current dollars is known as the pure
	ANS: T	PTS: 1	
2.			mmitment of dollars over time to derive future payments to compensate re committed, the expected rate of inflation and the uncertainty of
	ANS: T	PTS: 1	
3.	The holding period re	eturn (HPR) is equal to the holding period yield (HPY) stated as a percentage.
	ANS: F	PTS: 1	
4.	The geometric mean increases with the vo		of returns is always larger than the arithmetic mean and the difference he series.
	ANS: F	PTS: 1	
5.	The expected return	s the avera	ge of all possible returns.
	ANS: F	PTS: 1	
6.	Two measures of the	risk premi	um are the standard deviation and the variance.
	ANS: F	PTS: 1	
7.	The variance of expe	cted return	s is equal to the square root of the expected returns.
	ANS: F	PTS: 1	
8.	The coefficient of vareturn.	riation is th	ne expected return divided by the standard deviation of the expected
	ANS: F	PTS: 1	
9.	Nominal rates are av	erages of a	ll possible real rates.
	ANS: F	PTS: 1	
10.	The risk premium is	a function	of the volatility of operating earnings, sales volatility and inflation.
	ANS: F	PTS: 1	



11.	An individual who selects the investment that offers greater certainty when everything else is the same is known as a risk averse investor.						
	ANS: T	PTS: 1					
12.	Investors are willing nominal rate of inter	to forgo current consumption in order to increase future consumption for a test.					
	ANS: F	PTS: 1					
MUL	TIPLE CHOICE						
1.		n the investment process is cipated rate of return for a given investment instrument and its degree of					
		anding the nature of a particular investment and having the opportunity to					
		turns available on single instruments and the diversification of instruments					
		ired level of investment and possessing the resources necessary to carry it					
	ANS: A	PTS: 1					
2.	a. The nominal ristb. The coefficientc. The pure rate of	of investment exchange. interest. n/investment paradigm.					
	ANS: C	PTS: 1					
3.	The the varian expectations and the a. Larger, greater, b. Larger, smaller, c. Larger, greater, d. Smaller, greater e. Smaller, greater	lower higher higher , lower					
	ANS: C	PTS: 1					
4.	The coefficient of va a. Central tendency b. Absolute variable c. Absolute dispersed. Relative variable e. Relative return.	ility. sion.					



- 5. The nominal risk free rate of interest is a function of
 - a. The real risk free rate and the investment's variance.
 - b. The prime rate and the rate of inflation.
 - c. The T-bill rate plus the inflation rate.
 - d. The tax free rate plus the rate of inflation.
 - e. The real risk free rate and the rate of inflation.

ANS: E PTS: 1

- 6. In the phrase "nominal risk free rate," nominal means
 - a. Computed.
 - b. Historical.
 - c. Market.
 - d. Average.
 - e. Risk adverse.

ANS: C PTS: 1

- 7. If a significant change is noted in the yield of a T-bill, the change is most likely attributable to
 - a. A downturn in the economy.
 - b. A static economy.
 - c. A change in the expected rate of inflation.
 - d. A change in the real rate of interest.
 - e. A change in risk aversion.

ANS: C PTS: 1

- 8. The real risk-free rate is affected by a two factors:
 - a. The relative ease or tightness in capital markets and the expected rate of inflation.
 - b. The expected rate of inflation and the set of investment opportunities available in the economy.
 - c. The relative ease or tightness in capital markets and the set of investment opportunities available in the economy.
 - d. Time preference for income consumption and the relative ease or tightness in capital markets.
 - e. Time preference for income consumption and the set of investment opportunities available in the economy.

ANS: E PTS: 1

- 9. Which of the following is **not** a component of the risk premium?
 - a. Business risk
 - b. Financial risk
 - c. Liquidity risk
 - d. Exchange rate risk
 - e. Unsystematic market risk

ANS: E PTS: 1

- 10. The ability to sell an asset quickly at a fair price is associated with
 - a. Business risk.
 - b. Liquidity risk.

	c. Exchange rate risk. d. Financial risk. e. Market risk.
	ANS: B PTS: 1
11.	The variability of operating earnings is associated with a. Business risk. b. Liquidity risk. c. Exchange rate risk. d. Financial risk. e. Market risk.
	ANS: A PTS: 1
12.	The uncertainty of investment returns associated with how a firm finances its investments is known as a. Business risk. b. Liquidity risk. c. Exchange rate risk. d. Financial risk. e. Market risk.
	ANS: D PTS: 1
13.	What will happen to the security market line (SML) if the following events occur, other things constant: (1) inflation expectations increase and (2) investors become more rick everse?

- 13 ther things constant: (1) inflation expectations increase, and (2) investors become more risk averse?
 - Shift up and keep the same slope
 - Shift up and have less slope
 - c. Shift up and have a steeper slope
 - d. Shift down and keep the same slope
 - e. Shift down and have less slope

ANS: C PTS: 1

- 14. A decrease in the market risk premium, all other things constant, will cause the security market line to
 - a. Shift up

- b. Shift down
- c. Have a steeper slope
- d. Have a flatter slope
- e. Remain unchanged

ANS: D PTS: 1

- 15. A decrease in the expected real growth in the economy, all other things constant, will cause the security market line to
 - a. Shift up
 - b. Shift down
 - c. Have a steeper slope
 - d. Have a flatter slope
 - e. Remain unchanged

PTS: 1 ANS: B

16. Unsystematic risk refers to risk that is



- a. Undiversifiable
- b. Diversifiable
- c. Due to fundamental risk factors
- d. Due to market risk
- e. None of the above

ANS: B PTS: 1

- 17. The security market line (SML) graphs the expected relationship between
 - a. Business risk and financial risk
 - b. Systematic risk and unsystematic risk
 - c. Risk and return
 - d. Systematic risk and unsystematic return
 - e. None of the above

ANS: C PTS: 1

- 18. Two factors that influence the nominal risk-free rate are:
 - a. The relative ease or tightness in capital markets and the expected rate of inflation.
 - b. The expected rate of inflation and the set of investment opportunities available in the economy.
 - c. The relative ease or tightness in capital markets and the set of investment opportunities available in the economy.
 - d. Time preference for income consumption and the relative ease or tightness in capital markets.
 - e. Time preference for income consumption and the set of investment opportunities available in the economy.

ANS: A PTS: 1

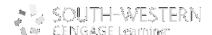
- 19. Measures of risk for an investment include
 - a. Variance of returns and business risk
 - b. Coefficient of variation of returns and financial risk
 - c. Business risk and financial risk
 - d. Variance of returns and coefficient of variation of returns
 - e. All of the above

ANS: D PTS: 1

- 20. Sources of risk for an investment include
 - a. Variance of returns and business risk
 - b. Coefficient of variation of returns and financial risk
 - c. Business risk and financial risk
 - d. Variance of returns and coefficient of variation of returns
 - e. All of the above

ANS: C PTS: 1

- 21. Modern portfolio theory assumes that most investors are
 - a. Risk averse
 - b. Risk neutral
 - c. Risk seekers
 - d. Risk tolerant



e. None of the above

ANS: A PTS: 1

- 22. Which of the following is not a component of the required rate of return?
 - a. Expected rate of inflation
 - b. Time value of money
 - c. Risk
 - d. Holding period return
 - e. All of the above are components of the required rate of return

ANS: D PTS: 1

- 23. All of the following are major sources of uncertainty EXCEPT
 - a. Business risk
 - b. Financial risk
 - c. Default risk
 - d. Country risk
 - e. Liquidity risk

ANS: C PTS: 1

- 24. The total risk for a security can be measured by its
 - a. Beta with the market portfolio
 - b. Systematic risk
 - c. Standard deviation of returns
 - d. Unsystematic risk
 - e. Alpha with the market portfolio

ANS: C PTS: 1

NARRBEGIN: Exhibit 01-01

Exhibit 1-1

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Assume you bought 100 shares of NewTech common stock on January 15, 2003 at \$50.00 per share and sold it on January 15, 2004 for \$40.00 per share.

NARREND

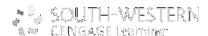
- 25. Refer to Exhibit 1-1. What was your holding period return?
 - a. -10%
 - b. -0.8
 - c. 25%
 - d. 0.8
 - e. -20%

ANS: D

HPR = Ending Value / Beginning Value = 40/50 = 0.8

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-01

26. Refer to Exhibit 1-1. What was your holding period yield?



a. -10%

b. -0.8

c. 25%

d. 0.8

e. -20%

ANS: E

HPY = HPR - 1 = (40/50) - 1 = 0.8 - 1 = -0.2 = -20%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-01

NARRBEGIN: Exhibit 01-02

Exhibit 1-2

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Suppose you bought a GM corporate bond on January 25, 2001 for \$750, on January 25, 2004 sold it for \$650.00.

NARREND

27. Refer to Exhibit 1-2. What was your annual holding period return?

a. 0.8667

b. -0.1333

c. 0.0333

d. 0.9534

e. -0.0466

ANS: D

HPR = Ending Value/Beginning Value = \$650.00/\$750 = 0.8667

Annual HPR = $(HPR)^{1/n}$ = $(0.8667)^{1/3}$ = 0.9534

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-02

28. Refer to Exhibit 1-2. What was your annual holding period yield?

a. -0.0466

b. -0.1333

c. 0.0333

d. 0.3534

e. 0.8667

ANS: A

HPR = Ending Value/Beginning Value = \$650.00/\$750 = 0.8667

Annual HPR = $(HPR)^{1/n}$ = $(0.8667)^{1/3}$ = 0.9534

Annual HPY = Annual HPR -1 = 0.9534 - 1 = -0.0466 = -4.66%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-02

NARRBEGIN: Exhibit 01-03

Exhibit 1-3

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

The common stock of XMen had the following historic prices.

Time	Price of XMen
3/01/1999	50.00
3/01/2000	47.00
3/01/2001	76.00
3/01/2002	80.00
3/01/2003	85.00
3/01/2004	90.00

NARREND

- 29. Refer to Exhibit 1-3. What was your holding period return for the time period 3/1/1999 to 3/1/2004?
 - a. 0.1247
 - b. 1.8
 - c. 0.1462
 - d. 0.40
 - e. 0.25

ANS: B

HPR = Ending Value/Beginning Value = 90/50 = 1.8

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-03

- 30. Refer to Exhibit 1-3. What was your annual holding period yield (Annual HPY)?
 - a. 0.1462
 - b. 0.1247
 - c. 1.8
 - d. 0.40
 - e. 0.25

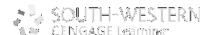
ANS: B

Annual HPR = $(HPR)^{1/n}$ = $(1.8)^{1/5}$ = 1.1247

Annual HPY = Annual HPR -1 = 1.1247 - 1 = 0.1247 = 12.47%

Time	Price of XMen	Return	HPR
3/01/1999	50		
3/01/2000	47	-0.0600	0.9400
3/01/2001	76	0.6170	1.6170
3/01/2002	80	0.0526	1.0526
3/01/2003	85	0.0625	1.0625
3/01/2004	90	0.0588	1.0588

- 31. Refer to Exhibit 1-3. What was your arithmetic mean annual yield for the investment in XMen?
 - a. 0.1462
 - b. 0.1247



c. 1.8

d. 0.40

e. 0.25

ANS: A

Arithmetic Mean =
$$\frac{1}{N} \sum_{t=1}^{N} HPY_t = \frac{-0.06 + 0.0617 + 0.0526 + 0.0625 + 0.588}{5} = 0.1462$$

PTS: 1

OBJ: Multiple Choice Problems

NAR: Exhibit 01-03

32. Refer to Exhibit 1-3. What was your geometric mean annual yield for the investment in XMen?

a. 0.25

b. 0.40

c. 1.8

d. 0.1247

e. 0.1462

ANS: D

Geometric Mean =
$$\prod_{t=1}^{N} (HPR_t)^{1/N} - 1$$
=
$$[(0.94)(1.617)(1.0526)(1.0625)(1.0588)]^{1/5} - 1$$
=
$$1.1247 - 1 = 0.1247 = 12.47\%$$

PTS: 1

OBJ: Multiple Choice Problems

NAR: Exhibit 01-03

NARRBEGIN: Exhibit 01-04

Exhibit 1-4

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

You have concluded that next year the following relationships are possible:

Economic Status	Probability	Rate of Return
Weak Economy	.15	-5%
Static Economy	.60	5%
Strong Economy	.25	15%

NARREND

33. Refer to Exhibit 1-4. What is your expected rate of return $[E(R_i)]$ for next year?

a. 4.25%

b. 6.00%

c. 6.25%

d. 7.75%

e. 8.00%

ANS: B

$$E(R_i) = (0.15)(-5) + (0.60)(5) + (0.25)(15) = 6\%$$



PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-04

- 34. Refer to Exhibit 1-4. Compute the standard deviation of the rate of return for the one year period.
 - a. 0.65%
 - b. 1.45%
 - c. 4.0%
 - d. 6.25%
 - e. 6.4%

ANS: D

$$\sigma = [(0.15)(-5-6)^2 + (0.60)(5-6)^2 + (0.25)(15-6)^2]^{1/2} = 6.25\%$$

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-04

- 35. Refer to Exhibit 1-4. Compute the coefficient of variation for your portfolio.
 - a. 0.043
 - b. 0.12
 - c. 1.40
 - d. 0.69
 - e. 1.04

ANS: E

CV = Standard Deviation of Returns/Expected Rate of Return = 6.25/6 = 1.04

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-04

NARRBEGIN: Exhibit 01-05

Exhibit 1-5

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Assume that during the past year the consumer price index increased by 1.5 percent and the securities listed below returned the following nominal rates of return.

U.S. Government T-bills 2.75% U.S. Long-term bonds 4.75%

NARREND

- 36. Refer to Exhibit 1-5. What are the real rates of return for each of these securities?
 - a. 4.29% and 6.32%
 - b. 1.23% and 4.29%
 - c. 3.20% and 6.32%
 - d. 1.23% and 3.20%
 - e. 3.75% and 5.75%

ANS: D

Real rate on T-bills = (1.0275 / 1.015) - 1 = 0.0123 = 1.23%

Real rate on bonds = (1.0475 / 1.015) - 1 = 0.032 = 3.2%



PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-05

- 37. Refer to Exhibit 1-5. If next year the real rates all rise by 10 percent while inflation climbs from 1.5 percent to 2.5 percent, what will be the nominal rate of return on each security?
 - a. 1.24% and 1.52%
 - b. 1.35% and 3.52%
 - c. 3.89% and 6.11%
 - d. 3.52% and 3.89%
 - e. 1.17% and 6.11%

ANS: C

The computations for the new real rates are:

Real rate on T-bills = $1.23 \times 1.10 = 1.353\%$

Real rate on bonds = $3.2 \times 1.10 = 3.52\%$

Nominal rate on T-bills = (1.01353)(1.025) - 1 = .03886 = 3.89%

Nominal rate on corporate bonds = (1.0352)(1.025) - 1 = .06108 = 6.11%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-05

- 38. If over the past 20 years the annual returns on the S&P 500 market index averaged 12% with a standard deviation of 18%, what was the coefficient of variation?
 - a. 0.6
 - b. 0.6%
 - c. 1.5
 - d. 1.5%
 - e. 0.66%

ANS: C

Coefficient of Variation = Standard Deviation of Returns/Expected Rate of Return

= 18% / 12% = 1.5

PTS: 1 OBJ: Multiple Choice Problems

39. Given investments A and B with the following risk return characteristics, which one would you prefer and why?

Investment	Expected Return	Standard Deviation of Expected Returns
A	12.2%	7%
В	8.8%	5%

- a. Investment A because it has the highest expected return.
- b. Investment A because it has the lowest relative risk.
- c. Investment B because it has the lowest absolute risk.
- d. Investment B because it has the lowest coefficient of variation.
- e. Investment A because it has the highest coefficient of variation.

ANS: D

Coefficient of Variation = Standard Deviation of Returns/Expected Rate of Return

 $CV_A = 7\% / 12.2\% = 0.573$



 $CV_B = 5\% / 8.8\% = 0.568$

Investment B has the lowest coefficient of variation and would be preferred.

PTS: 1 OBJ: Multiple Choice Problems

NARRBEGIN: Exhibit 01-06

Exhibit 1-6

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

You are provided with the following information

Nominal return on risk-free asset = 4.5%

Expected return for asset i = 12.75%

Expected return on the market portfolio = 9.25%

NARREND

- 40. Refer to Exhibit 1-6. Calculate the risk premium for asset i
 - a. 4.5%
 - b. 8.25%
 - c. 4.75%
 - d. 3.5%
 - e. None of the above

ANS: B

Risk premium for asset i = 12.75 - 4.5 = 8.25%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-06

- 41. Refer to Exhibit 1-6. Calculate the risk premium for the market portfolio
 - a. 4.5%
 - b. 8.25%
 - c. 4.75%
 - d. 3.5%
 - e. None of the above

ANS: C

Risk premium market portfolio = 9.25 - 4.5 = 4.75%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-06

NARRBEGIN: Exhibit 01-07

Exhibit 1-7

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Consider the following information

Nominal annual return on U.S. government T-bills for year 2000 = 3.5%Nominal annual return on U.S government long-term bonds for year 2000 = 4.75%



NAR: Exhibit 01-07

Nominal annual return on U.S. large-cap stocks for year 2000 = 8.75%Consumer price index January 1, 2000 = 165

Consumer price index December 31, 2000 = 169

NARREND

- 42. Refer to Exhibit 1-7. Compute the rate of inflation for the year 2000
 - a. 2.42%
 - b. 4.0%
 - c. 1.69%
 - d. 1.24%
 - e. None of the above

ANS: A

Rate of inflation = (169/165) - 1 = .0242 = 2.42%

PTS: 1 OBJ: Multiple Choice Problems

- 43. Refer to Exhibit 1-7. Calculate the real rate of return for U.S. T-bills
 - a. 2.26%
 - b. 1.81%
 - c. -0.5%
 - d. 1.05%
 - e. None of the above

ANS: D

Real return on U.S. T-bills = (1.035/1.0242) - 1 = .0105 = 1.05%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-07

- 44. Refer to Exhibit 1-7. Calculate the real rate of return for U.S. long-term bonds
 - a. 3.06%
 - b. 2.27%
 - c. 2.51%
 - d. 3.5%
 - e. None of the above

ANS: B

Real return on U.S. bonds = (1.0475/1.0242) - 1 = .0227 = 2.27%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-07

- 45. Refer to Exhibit 1-7. Calculate the real rate of return for U.S. large-cap stocks
 - a. 7.06%
 - b. 6.18%
 - c. 4.75%
 - d. 3.75%
 - e. None of the above

ANS: B

Real return on U.S. stocks = (1.0875/1.0242) - 1 = .0618 = 6.18%



NARRBEGIN: Exhibit 01-08

Exhibit 1-8

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Assume that you hold a two stock portfolio. You are provided with the following information on your holdings

Stock	Shares	Price(t)	Price(t+1)
1	15	10	12
2	25	15	16

NARREND

46. Refer to Exhibit 1-8. Calculate the HPY for stock 1

a. 10%

b. 20%

c. 15%

d. 12%

e. 7%

ANS: B

									Weighted
Stock	Shares	Price(t)	MV(t)	Price(t+1)	MV(t+1)	HPR	HPY	Weight	HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

HPY for stock 1 = (180/150) - 1 = .2 = 20%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-08

47. Refer to Exhibit 1-8. Calculate the HPY for stock 2

- a. 5%
- b. 6%
- c. 7%
- d. 8%
- e. 10%

ANS: C

									Weighted
Stock	Shares	Price(t)	MV(t)	Price(t+1)	MV(t+1)	HPR	HPY	Weight	HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

HPY for stock 2 = (400/375) - 1 = .07 = 7%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-08

48. Refer to Exhibit 1-8. Calculate the market weights for stock 1 and 2 based on period t values a. 39% for stock 1 and 61% for stock 2



b. 50% for stock 1 and 50% for stock 2

c. 71% for stock 1 and 29% for stock 2

d. 29% for stock 1 and 71% for stock 2

e. None of the above

ANS: D

									Weighted
Stock	Shares	Price(t)	MV(t)	Price(t+1)	MV(t+1)	HPR	HPY	Weight	HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

Market weight for stock 1 = 150/525 = .29 = 29%Market weight for stock 2 = 375/525 = .71 = 71%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-08

- 49. Refer to Exhibit 1-8. Calculate the HPY for the portfolio
 - a. 10.6%
 - b. 6.95%
 - c. 13.5%
 - d. 10%
 - e. 15.7%

ANS: A

Stock	Shares	Price(t)	MV(t)	Price(t+1)	MV(t+1)	HPR	HPY	Weight	Weighted HPY
1	15	10	150	12	180	1.2	0.2	0.29	0.058
2	25	15	375	16	400	1.07	0.07	0.71	0.048
			525		580				0.106

Portfolio HPY = .29(.20) + .71(.07) = .106 = 10.6%

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-08

NARRBEGIN: Exhibit 01-09

Exhibit 1-9

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

You purchased 100 shares of GE common stock on January 1, for \$29 a share. A year later you received \$1.25 in dividends per share and you sold it for \$28 a share.

NARREND

- 50. Refer to Exhibit 1-9. Calculate your holding period return (HPR) for this investment in GE stock.
 - a. 0.9655
 - b. 1.0086
 - c. 1.0357
 - d. 1.0804
 - e. 1.0973

ANS: B

HPR = (28 + 1.25)/29 = 1.0086



PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-09

- 51. Refer to Exhibit 1-9. Calculate your holding period yield (HPY) for this investment in GE stock.
 - a. -0.0345
 - b. -0.0090
 - c. 0.0086
 - d. 0.0643
 - e. 0.0804

ANS: C

$$HPY = (28 + 1.25)/29 - 1 = 1.0086 - 1 = 0.0086$$

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-09

NARRBEGIN: Exhibit 01-10

Exhibit 1-10

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

The annual rates of return of Stock Z for the last four years are 0.10, 0.15, -0.05, and 0.20, respectively.

NARREND

- 52. Refer to Exhibit 1-10. Compute the arithmetic mean annual rate of return for Stock Z.
 - a. 0.03
 - b. 0.04
 - c. 0.06
 - d. 0.10
 - e. 0.40

ANS: D

$$AM = (0.10 + 0.15 - 0.05 + 0.20)/4 = 0.10$$

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-10

- 53. Refer to Exhibit 1-10. Compute the standard deviation of the annual rate of return for Stock Z.
 - a. 0.0070
 - b. 0.0088
 - c. 0.0837
 - d. 0.0935
 - e. 0.1145

ANS: D

Std Dev =
$$\sqrt{\frac{(0.10 - 0.10)^2 + (0.15 - 0.10)^2 + (-0.05 - 0.10)^2 + (0.20 - 0.10)^2}{4}}$$

= $\sqrt{\frac{0 + .0025 + .0225 + .01}{4}} = \sqrt{\frac{.035}{4}} = .0935$

Analysis of Investments and Management of Portfolios 9th Edition Brown Test Bank

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- 54. Refer to Exhibit 1-10. Compute the coefficient of variation for Stock Z.
 - a. 0.837
 - b. 0.935
 - c. 1.070
 - d. 1.145
 - e. 1.281

ANS: B

The coefficient of variation is equal to the standard deviation divided by the expected return. .0935/10 = 0.935

PTS: 1 OBJ: Multiple Choice Problems NAR: Exhibit 01-10

- 55. Refer to Exhibit 1-10. Compute the geometric mean rate of return for Stock Z.
 - a. 0.051
 - b. 0.074
 - c. 0.096
 - d. 0.150
 - e. 1.090

ANS: C

 $[(1.1)(1.15)(0.95)(1.2)]^{1/4} = 1.0958 - 1 = 0.0958$