https://selldocx.com/products/test-bank-investment-analysis-and-portfolio-management-1e-reilly

1. The rate of exchange between certain future dollars and certain current dollars is known as the pure

CHAPTER 1—THE INVESTMENT SETTING

TRUE/FALSE

	rate of interest.		
	ANS: T	PTS:	1
2.			commitment of dollars over time to derive future payments to compensate ds are committed, the expected rate of inflation and the uncertainty of
	ANS: T	PTS:	1
3.	The holding period re	eturn (F	IPR) is equal to the holding period yield (HPY) stated as a percentage.
	ANS: F	PTS:	1
4.	The geometric mean increases with the vo		ries of returns is always larger than the arithmetic mean and the difference of the series.
	ANS: F	PTS:	1
5.	The expected return i	is the av	verage of all possible returns.
	ANS: F	PTS:	1
6.	Two measures of the	risk pro	emium are the standard deviation and the variance.
	ANS: F	PTS:	1
7.	The variance of expe	cted ret	turns is equal to the square root of the expected returns.
	ANS: F	PTS:	1
8.	The coefficient of varieturn.	riation	is the expected return divided by the standard deviation of the expected
	ANS: F	PTS:	1
9.	Nominal rates are ave	erages (of all possible real rates.
	ANS: F	PTS:	1
10.	The risk premium is	a functi	on 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 to forgo current consumption in order to increase future consumption for a nominal rate of interest.							
	ANS: F	PTS: 1						
MUL	TIPLE CHOICE							
1.		in the investment process is ticipated rate of return for a given investment instrument and its degree of						
	b. between unders purchase it.	standing the nature of a particular investment and having the opportunity to						
	into a portfolio	eturns available on single instruments and the diversification of instruments sired level of investment and possessing the resources necessary to carry it						
	ANS: A	PTS: 1						
2.	a. The nominal risb. The coefficientc. The pure rate o	of investment exchange. f interest. on/investment paradigm.						
	ANS: C	PTS: 1						
3.		higher higher r, lower						
	ANS: C	PTS: 1						
4.	The coefficient of va. Central tendence b. Absolute variable. Absolute disperd. Relative variable. Relative return.	oility. rsion. ility.						
	ANS: D	PTS: 1						

- 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 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	e 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 risk averse?
 - a. Shift up and keep the same slope
 - b. 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

ANS: B PTS: 1

- 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

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- 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

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Assume you bought 100 shares of NewTech common stock on January 15, 2009 at \$50.00 per share and sold it on January 15, 2010 for \$40.00 per share.

- 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: LO3

- 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: LO3

Exhibit 1-2

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Suppose you bought a GM corporate bond on January 25, 2009 for \$750, on January 25, 2010 sold it for \$650.00.

- 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

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: LO3

Exhibit 1-3

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

The common stock of XMen had the following historic prices.

Price of XMen
50.00
47.00
76.00
80.00
85.00
90.00

- 29. Refer to Exhibit 1-3. What was your holding period return for the time period 3/1/2004 to 3/1/2009?
 - 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: LO3

- 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
3/01/2004	50		_
3/01/2005	47	-0.0600	0.9400
3/01/2006	76	0.6170	1.6170
3/01/2007	80	0.0526	1.0526
3/01/2008	85	0.0625	1.0625
3/01/2009	90	0.0588	1.0588

PTS: 1 OBJ: LO3

- 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: LO3

- 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

$$= \prod_{t=1}^{N} (HPR_t)^{1/N} - 1$$
$$= [(0.94)(1.617)(1.0526)(1.0625)(1.0588)]^{1/5} - 1$$

Geometric Mean = 1.1247 - 1 = 0.1247 = 12.47%

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%

- 33. Refer to Exhibit 1-4. What is your expected rate of return [E(Ri)] for next year?
 - a. 4.25%
 - b. 6.00%
 - c. 6.25%
 - d. 7.75%
 - e. 8.00%
 - ANS: B

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

PTS: 1 OBJ: LO3

- 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: LO4

- 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

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.

Canadian T-bills 2.75%
Canadian corporate bonds 4.75%

- 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: LO5

- 37. Refer to Exhibit 1-5. If next year the real rates all rise by 10% while inflation climbs from 1.5% to 2.5%, 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%

- 38. Refer to Exhibit 1-5. 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: LO4

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

		Standard Deviation
Investment	Expected Return	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

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

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

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

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%

- 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: LO5

- 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: LO5

Exhibit 1-7

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

Consider the following information

Nominal annual return on Canadian T-bills for year 2009 = 3.5%

Nominal annual return on Canadian corporate bonds for year 2009= 4.75%

Nominal annual return on Canadian large-cap stocks for year 2009 = 8.75%

Consumer price index January 1, 2009 = 165

Consumer price index December 31, 2009 = 169

	14
42.	Refer to Exhibit 1-7. Compute the rate of inflation for the year 2009 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: LO5
43.	Refer to Exhibit 1-7. Calculate the real rate of return for Canadian T-bills a. 2.26% b. 1.81% c0.5% d. 1.05% e. None of the above
	ANS: D Real return on Canadian T-bills = $(1.035/1.0242) - 1 = .0105 = 1.05\%$
	PTS: 1 OBJ: LO5

44. Refer to Exhibit 1-7. Calculate the real rate of return for Canadian corporate bonds.

- a. 3.06%
- b. 2.27%
- c. 2.51%
- d. 3.5%
- e. None of the above

ANS: B

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

PTS: 1 OBJ: LO5

45. Refer to Exhibit 1-7. Calculate the real rate of return for Canadian 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 Canadian large-cap stocks = (1.0875/1.0242) - 1 = .0618 = 6.18%

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

- 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: LO3

- 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%

48. Refer to Exhibit 1-8. Calculate the market weights for Stocks 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: LO2

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

									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

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

USE THE FOLLOWING INFORMATION FOR THE NEXT PROBLEM(S)

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

- 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: LO3

- 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: LO3

Exhibit 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.

- 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

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 =
$$\sqrt{\frac{(0.10 - 0.10)^2 + (0.15 - 0.10)^2 + (-0.05 - 0.10)^2 + (0.20 - 0.10)^2}{4}}$$
$$= \sqrt{\frac{0 + .0025 + .0225 + .01}{4}} = \sqrt{\frac{.035}{4}} = .0935$$

PTS: 1

OBJ: LO4

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: LO4

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

PTS: 1

OBJ: L03