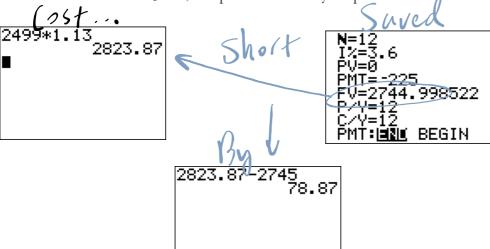
IN CLASS PRACTICE WITH THE TI-84...



p. 493: #1, 2, 4, 7, 8, 10, 11, 12, 13, 15

13. Miguel wants to buy an entertainment system as a wedding gift for his sister. He estimates that when she marries a year from now, the system will cost \$2499, plus 13% tax. Will Miguel have enough money to buy the system if he deposits \$225 at the end of each month into an account that earns 3.6%, compounded monthly? Explain.



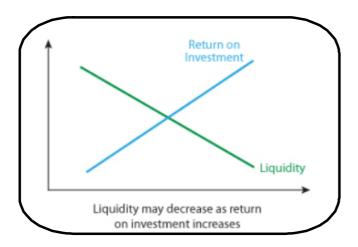
10. How long will it take for \$1000 payments every 6 months to grow to more than \$10 000 if the interest rate is 7.5%, compounded semi-annually?

■ N=8.650349422 I%=7.5 PV=0 PMT=-1000 FV=10000 P/Y=2 C/Y=2 PMT: ■ BEGIN

Investment Portfolios

As you learn to analyze investment portfolios, don't forget that an investment portfolio must meet the investor's specific needs. A portfolio that works for one person may not be ideal for another, as each person's requirements will be different. In general, our requirements from an investment fall into these three areas:

- Liquidity: How quickly and easily the investment can be turned into cash
- Return on investment: The increase in value or the money received from an investment
- Risk: The probability that an investment will be lost



Return on Investment

The purpose of investing is to get back more money than you put in. This increased value or additional cash is your **return on investment** (often referred to as **ROI**). The word "return" can mean different things:

- The amount of money returned on an investment. For example, if a \$1,000 investment increases in value to \$1050 in a year, its return in \$50. Generally, people identify the time required for that return.
- The rate at which an investment grows. A rate always relates to a specific time—investments generally relate to one year unless a different time is specified. When return on investment is given as a rate of return (ROR or investment return), it is usually written as a per cent that tells how fast an investment grew over a year. For example, the same \$1000 investment that grows to \$1050 in one year has a rate of return of 5%.

Most high-interest-rate savings accounts are currently paying about 3% interest per year. This means that if you put \$1,000 in a savings account today, you will have \$1,030 at the end of one year. Your ROI for the year will be \$30. Your ROR will be 3%.

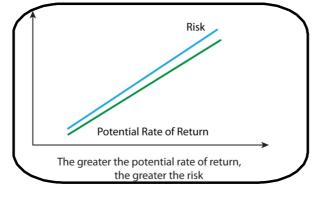
People use ROI to evaluate, or measure, the performance (success) of an investment or to compare the efficiency of a number of different investments.

Risk

Some investments do well, some do not. The probability that an investment will perform poorly is called **risk**.

Some investments—such as bank accounts and Guaranteed Investment Certificates (GICs)—are not risky at all. Their rate of return is guaranteed and predictable. Also, they generally promise a low rate of return.

Some investments—such as shares in a new gold mine—have high risks because the operation being invested in also has a high risk of failure. If the operation fails, investors lose their money. The only way someone will invest in such an operation is for the chance to make a very high return on investment if the operation does well.

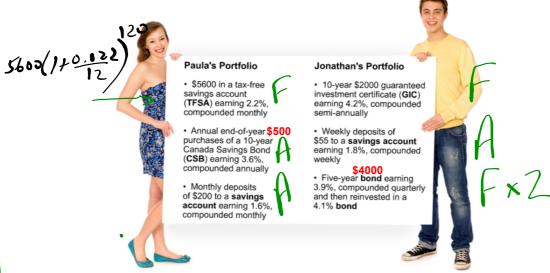


Except for guaranteed investments, most investments have some degree of risk. Understanding how the economy is performing, and checking an investment's past performance can help you estimate the investment's risk level. It is important to remember, though, that an investment's past performance is not a guarantee of its future performance. History is filled with people who assumed that history predicts the future. Make sure you find out about the risk involved before you choose an investment. Wise investors diversify their investment portfolios to help manage the risk.

Comparing Investment Portfolios

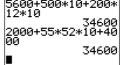
Investment Portfolio Analysis Question.pdf

Jonathan and Paula are each hoping to buy a house in ten years. They have each chosen an investment portfolio, hoping to save for a large down payment in ten years. Whose portfolio will show the better return?



Using the information provided, answer the following questions for each portfolio. After making an honest effort, click each question to check your work.

1. How much principal do Paula and Jonathan each invest over the ten years? Include both single payment investments and the total of regular payments. 5600+500*10+200*



2. What is the future value of each person's portfolio, in ten years? Don't forget that Jonathan reinvests his bond after five years.

3. What rate of return does each person's portfolio have after ten years? Rate of return is the ratio of the amount an investment has increased in value at a given point to the amount invested.

Paula's Portfolio

- \$5600 in a tax-free savings account (TFSA) earning 2.2%, compounded monthly
- Annual end-of-year \$500 purchases of a 10-year Canada Savings Bond (CSB) earning 3.6%, compounded annually

Monthly deposits
 of \$200 to a savings
 account earning 1.6%,
 compounded monthly

N=120 I½=1.6 PV=0 PMT=-200 •FV=26007.87215 P/Y=12 C/Y=12 PMT:□NU BEGIN

Jonathan's Portfolio

- 10-year \$2000 guaranteed investment certificate (GIC) earning 4.2%, compounded semi-annually
- Weekly deposits of \$55 to a savings account earning 1.8%, compounded weekly

\$4000
• Five-year bond earning 3.9%, compounded quarterly and then reinvested in a 4.1% bond

SOLUTIONS...

1)

Paula's Investment:

5600 + 10(500) + (200)(12)(10) 2000 + (55)(52)(10) + 4000

=34600 =34600

Paula invested \$34600 Jonathan invested \$34600

Paula and Jonathan will invest the same amount over the ten years.

2)

Use the financial application on your graphing calculator:

For single-payment investments, enter: Term in years, Present value, Annual interest rate, Compounding frequency

For regular-payment investments, enter: Number of payments, Regular payment amount, Payment frequency, Payments at Beginning or End of compounding period, Annual interest rate, Compounding frequency

Future Value (Paula)

Future Value (Jonathan)

TFSA = \$6976.62 CSBs = \$5892.88 GIC = \$3030.71 Savings Account = \$31 329.72

Jonathan's Investment:

X Savings Account = \$26 007.87

Bond (reinvested at 5 yrs*) = \$5955.45

Portfolio total = \$38 877.37

Portfolio total = \$40 315.88

Total future value = \$38 877.37

Total future value = \$40 315.88

* Jonathan's bond has a future value of \$4856.65 after five years, which he reinvests for another five years at 4.1%.

3)

Subtract the amount invested from the future value, then divide by the amount invested.

Rate of Return (Paula)

Rate of Return (Jonathan)

 $= \frac{38877.37 - 34600}{34600} = \frac{40315.88 - 34600}{34600}$

= 0.123 = 0.165

Jonathan's portfolio will have a rate of return of about 17%. This is about 5% higher than the rate of return from Paula's portfolio, which will be about 12%.

Managed Solutions

(Class A)

Fund Facts

at September 30, 2012

d Codes	Managed	Custom	
ISE	C1G2290	CIG2265	
DSC	CIG3290		
LSC	CIG1420		

Managed By: CI Investments Inc.

Advisors: CI Investment Consulting

Assets Under Management*: \$727.1 million

Portfolio Manager: Multi-manager

Asset Class: Diversified Income

Inception Date: July 2010

NAV: \$10.80

Min. Initial Investment: \$25,000

Subsequent Purchase(s): \$25,000

Min. PAC Investment: \$250

Management Expense Ratio: 2.02%

Top Holdings as at August 31, 2012

Gov't of Canada, 2.00%, March 1, 2014	2.03%
Gov't of Canada, 2.75%, June 1, 2022	1.91%
 Treasury, 2.00%, November 15, 21 	1.88%
Gov't of Canada, 4.00%, June 1, 2041	1.55%
Eli Lilly & Co.	1.46%
Gov't of Canada, 2.25%, August 1, 2014	1.24%
Gov't of Canada, 3.00%, December 1, 2015	1.18%
Province of British Columbia, 3.70%, December 18, 2020	1.15%
iShares DEX Universe Bond	1.14%
Province of Quebec, 4.50%, December 1, 2020	1.10%
Total	14.64%

Volatility Meter



Equity Style and Capitalization Overview

	Blend	Growth	Value
Large			
Mid			
Small			

___arce: CI Investments and The Globe and Mail Inc.

Select Income Advantage Managed Corporate Class (Class A)



OBJECTIVE

The investment objective of this fund is to provide exposure to a diversified portfolio of income-generating securities in a manner that is similar to holding multiple income-generating funds. The fund invests primarily in investment grade fixed income securities issued by governments and corporations in Canada and globally. The fund may also invest up to 50% in other income generating securities such as preferred shares, common shares and real estate investment trusts. The fund's investment will be made primarily through investments in other mutual funds, either directly or by entering into derivatives, and the fund may directly hold securities from time to time. Any change to the investment objective must be approved by a majority of the votes cast by shareholders at a meeting called to consider the change.

Compound Returns and Quartile Rankings (as at September 30, 2012)

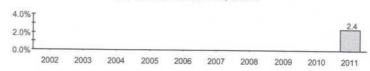
This table shows the historical annual compound total return of the fund compared with the Globefund Group Average and the fund's quartile ranking within the Globefund Peer Group. The returns listed below are percentages. Performance of the fund versus its official benchmark can be found in the Management Report of Fund Performance (MRFP). See the related document section on this web page.

-	YTD	1Mo	ЗМо	1Yr	3Yr	5Yr	10Yr	Since Inception*
Qrtl	2	4	4	3	{N/A}	{N/A}	{N/A}	{N/A}
Return	5.37	0.84	0.93	7.14	{N/A}	{N/A}	{N/A}	/ 3.54
Grp Avg	5.08	1.2	2.31	8.05	5.42	3.17	4.2	(N/A)

Performance Data

This chart shows you the fund's annual performance and how an investment would have changed over time.

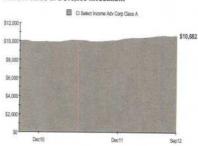
CI Select Income Adv Corp Class A



Asset Class



Current Value of a \$10,000 Investment





Mutual Funds

(Class A)

Fund Facts

at September 30, 2012

d Codes	Class A	Corporate Class
ISC	CIG9010	CIG2308
DSC	CIG9060	CIGBBBB
LSC	CIG1150	CIC1308

Managed By: Cl Investments Inc.

Advisors: Signature Global Advisors Chief Investment Officer Eric Bushell

Assets Under Management*: \$346.8 million

Portfolio Manager: John Shaw and Geof Marshall

Asset Class: Global Fixed Income Inception Date: December 2001

NAV: \$9.97

Min. Initial Investment: \$500

Subsequent Purchase(s): \$500

Min. PAC Investment: \$50

Management Expense Ratio: 2.10%

Top Holdings as at August 31, 2012 Gov't of Canada, 2.75%, June 1, 2022 0.93% Harvest Operations Corp., 6.88%, 0.82% October 1, 2017 ernational Lease Finance, 8.75%, 0.82% arch 15, 2017 Lincoln National Corp., 7.00%, May 17, 2066 Calpine Corp., 7.50%, February 15, 0.72% Chiron Merger Sub, 10.50%, 0.70% November 1, 2018 National Money Mart Company, 0.66% 10.38%, December 15, 2016 SunGard Data Systems, 10.25%, August 15, 2015 0.58% Multiplan Inc, 9.88%, September 1, 0.57% Pacific Rubiales Energy, 7.25%, December 12, 2021 7.14% Total

Volatility Meter

Low High Based on 3-year standard deviation relative to other funds in its category, from Blobe Investor.

Fixed Income and Capitalization Overview Spread Rate Blend



warree, CI investments and The Globe and Mail Inc.

Signature Corporate Bond Fund (Class A)

Also available: Class F & I



OBJECTIVE

The fund's investment objective is to achieve a yield advantage by using fundamental value analysis to evaluate investments. The fund will invest mainly in fixed-income securities that are investment grade and below investment grade. The fundamental investment objective of the fund can only be changed with the approval of a majority of the votes cast by unitholders at a meeting called specifically to vote on the change to the investment objectives.

Compound Returns and Quartile Rankings (as at September 30, 2012)

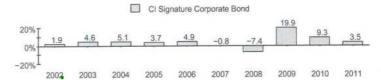
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	YTD	1Mo	ЗМо	1Yr	3Yr	5Yr	10Yr	Since Inception*
Orti	3	4	4	3	3	3	3	(N/A)
Return	6.84	0.61	1.82	10.73	7.56	6.13	4.89	4.6
Gro Avo	8.45	1.13	3.29	11.99	8.31	6.2	6.16	(N/A)

^{*}December 17, 2001

Performance Data

This chart shows you the fund's annual performance and how an investment would have changed over time.



Bond Type

Corporate Debentures 82.9%

Municipal Bonds 0.2%

Other 14.3%

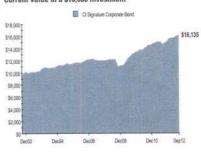
Federal Bonds 2.6%

| More than 20 years maturity | 12.0% | 10–20 years maturity | 2.9% | 5–10 years maturity | 26.0% | 1–5 years maturity | 26.0% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2% | 14.2%

Geographic Composition



Current Value of a \$10,000 Investment





(Class A)

Fund Facts

s at September 30, 2012

d Codes	Class A	Corporate Class
ISC		CIG2304
	CIG786	CIG3304
	CIG1786	CIG1304

Managed By: CI Investments Inc.

Advisors: Signature Global Advisors Chief Investment Officer Eric Bushell

Assets Under Management*: \$4,168.7 million

Portfolio Manager: Geof Marshall, Joe D'Angelo

Asset Class: Canadian Balanced Income

Inception Date: December 1996

NAV: \$14.02

Min. Initial Investment: \$500

Subsequent Purchase(s): \$500

Min. PAC Investment: \$50

Management Expense Ratio: 1.60%

Top Holdings as at August 31, 2012

Inter Pipeline Fund	2.16%
Suncor Energy	2.01%
ral Dutch Shell PLC	1.99%
cominar REIT	1.91%
Cdn. Real Estate Investment	1.73%
Allied Properties REIT	1.67%
Brookfield Asset Management	1.62%
Brookfield Renewable Energy	1.32%
Transurban Group	1.30%
H&R Real Estate Invest. Trust	1.24%
Total	16.95%

Volatility Meter



Equity Style and Capitalization Overview

	Blend	Growth	Value
Large	-	HER V	
Mid	THE STATE OF		
Small			

outrice: Cl Investments and The Globe and Mail Inc.

Signature High Income Fund (Class A)

Also available: Class F & I



OBJECTIVE

This funds objective is to generate a high level of income and long-term capital growth. It invests primarily in high-yielding equity securities and Canadian corporate bonds. Any change to the investment objective must be approved by a majority of votes cast at a meeting of unitholders held for that reason.

Compound Returns and Quartile Rankings (as at September 30, 2012)

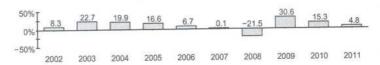
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	YTD	1Mo	3Мо	1Yr	3Yr	5Yr	10Yr	Since Inception*
Out	1	4	1	1	1	1	1	(N/A)
Ortl	8.61	1 22	3.43	13.87	11.54	5.75	9.44	9.74
Return Gen Aver	6.0	1.75	2.95	9.28	5.07	1.37	4.85	{N/A}

Performance Data

This chart shows you the fund's annual performance and how an investment would have changed over time.

CI Signature High Income



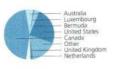
Asset Class



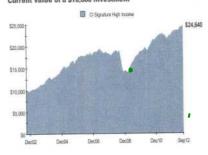
Equity Sectors



Geographic Composition



Current Value of a \$10,000 Investment





C Investments

Homework. p.502 #1,3,5 Investment Portfolio Analysis Question.pdf