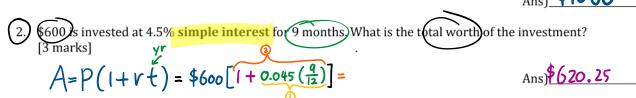
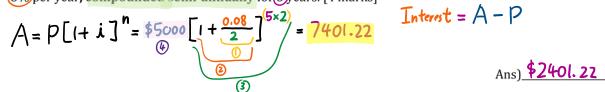
Practice Te	st				
November 2, 2023	10:01 AN FOM 12 (Chapter 1 Test	Practice Test	Name:	
Simple interest:	I = Prt	A = P(1 + rt)	Compounded Interest:	$A = P(1+i)^{0}$	erid
You have to use	the equa	ations for the first 4		period Period	
				at 2.7% per annum <mark>sim</mark> j	ple interest for 5
years. [3	marksj	I=Prt=	\$8000 × 0.027 × 5	=\$1080	Ans) \$1080
(2) (600)	nyoctod c	ot 4 504 simple inter	rost for 9 months Wha	t is the total worth of the	o investment?



3. Rosa invested \$600 at 3.9% simple interest. At the investment's maturity, it value was \$1302. How long was the money invested? $[3 \text{ marks}] \qquad \qquad I = \text{Prt} \qquad 720 = \$600 (0.039) \text{t}$ I = \$ |302 - 600 = \$720

4. Using the formula, determine how much interest is earned on an investment of \$5000 at an interest rate of 8% per year, compounded semi-annually for 5 years. [4 marks]



For the following question you can use the graphing calculator's financial program

5. Jade has \$30 000 to invest for 5 years. Which investment option will earn more interest? How much more interest? [6 marks]

Option A) 6.2% simple interest I = Prt = \$30000 (0.062)(5yr) = \$9300 (A)

• Option B) 4.2% compound interest, compounded annually

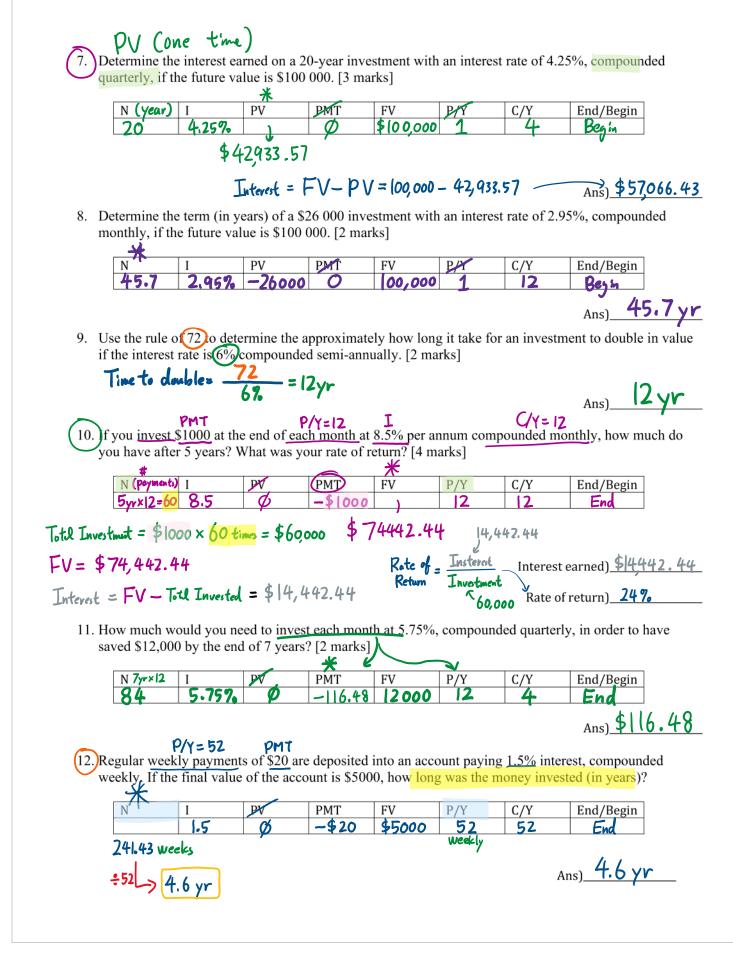
N	I	PV	PMT	FV 💥	P/Y	C/Y	End/Begin
5yr	4.2%	-\$30000	0	36851.90	1	1	Begin



Which option?)

6. Determine the present value of a 10-year CIG with an interest rate of 5.6%, compounded monthly, if the future value is \$10 000. [2 marks]

		<u> </u>					
N	I	PV	РМГ	FV	P/Y	C/Y	End/Begin
Oyr	5.6	1	Ø	\$10000	1	12	Begin
1		4-5	719.54				Ans) \$5719



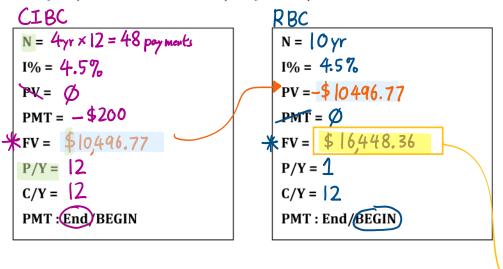
- 13. This portfolio was started 2 years ago. What is the TOTAL current value of the portfolio?
 - Weekly deposits of \$50 (end) into an account earning 2.5%, compounded weekly
 - A \$2500 investment averaging 3.25%, compounded semi-annually [4 marks]

			→						
I	DV	PMT	FV	P/Y	C/Y	End/Begin			
2.5%	0	-\$50	5330.88	52	52	End			
VI.									
I	PV	PMT	FV 🕌	P/Y	C/Y	End/Begin			
3,25	-2500	0	2666.50		2	Besin			
	I 2.5%.	2.5% O	2.5% O - \$ 50	2.5% O - \$ 50 5330.88	2.5% O −\$50 5330.88 52 I PV PMT FV → P/Y	2.5% O -\$50 5330.88 52 52 152			

Ans) \$7997.38

CIBC

14. Diane invested \$200 at the end of each month for 4 years at 4.5% per annum compounded monthly. At the end of 4 years she stops making monthly payments, but lets the balance continue to grow in the same investment for another 10 years. How much does she have at the end of 14 years? (hint: how much did she save after 4 year? Reinvest that as one lump sum for the 2nd part and how much did she save at the end?) [4 marks]



Value at the end of 14 years) \$ 16,448.36