

Complete these questions to complete our first day on LAB 3

5. Calculate the future value of each annuity.

K

	Regular Payment	Rate of Compound Interest per Year	Compounding Period	Time
a)	\$1500 per year	6.3%	annually	10 years
b)	\$250 every 6 months	3.6%	semi-annually	3 years
c)	\$2400 per quarter	4.8%	quarterly	7 years
d)	\$25 per month	8%	monthly	35 years

6. Mike wants to invest money every month for 40 years. He would like to have \$1 000 000 at the end of the 40 years. For each investment option, how much does he need to invest each month?

A

- a) 10.2%/a compounded monthly
- b) 5.1%/a compounded monthly

2. Each situation represents a simple, ordinary annuity.

- i) Calculate the present value of each payment.
- ii) Write the present values of the payments as a series.
- iii) Calculate the present value of the annuity.

	Regular Payment	Rate of Compound Interest per Year	Compounding Period	Time
a)	\$8000 per year	9%	annually	7 years
b)	\$300 every 6 months	8%	semi-annually	3.5 years
c)	\$750 per quarter	8%	quarterly	2 years