Multiple Choice: Choose the best answer for each question.

- 1. Which situation represents an annuity?
 - a. Making a payment at the end of each month on a 24-month car loan.
 - b. Calculating the appreciated value of a house.
 - c. Making a lump sum payment that is 10% of an outstanding mortgage.
 - d. Depositing \$50 into a savings account.
- 2. Which statement is false?
 - a. Making weekly payments will pay down a mortgage faster than making monthly payments.
 - b. Decreasing the term on a loan from five years to four years reduces the total interest paid.
 - c. Increasing the payment frequency increases the total amount paid on a loan.
 - d. For all Canadian mortgages, interest is compounded semi-annually.
- 3. You deposit \$100 per month into an account paying 1.25% per year, compounded monthly. Which is the best estimate of the future value of this account after three years?
 - a. \$4000
 - b. \$50 000
 - c. \$2500
 - d. \$10 000
- 4. Which change would increase the amount of interest paid over the life of a mortgage?
 - a. Making an extra payment once a year.
 - b. Choosing a shorter amortization period.
 - c. Switching from weekly payments to monthly payments.
 - d. Renewing the mortgage at a lower interest rate.
- 5. Making bi-monthly payments results in how many payments in one year?
 - a. 12
 - b. 6
 - c. 24
 - d. 26
- 6. The length of time needed to eliminate a debt such as a mortgage is called the:
 - a. Term
 - b. Borrowing time
 - c. Duration
 - d. Amortization period
- 7. When you sell your home, the difference between the selling price and the amount you still owe on the mortgage is called:
 - a. Equity
 - b. Collateral
 - c. Revenue
 - d. Profit

- 8. A fixed rate mortgage offers...
 - a. An interest rate that fluctuates with the prime interest rate for the full amortization period
 - b. An interest rate that stays the same for the term of the mortgage
 - c. An interest rate that fluctuates with the prime interest rate for the term of the mortgage
 - d. An interest rate that stays the same for the full amortization period
- 9. A lump sum payment...
 - a. Is applied directly to the outstanding principal of your mortgage
 - b. Can be made only as often and to the maximum amount that your bank will allow
 - c. Reduces the amount of interest paid for the remainder of the mortgage
 - d. All of the above
- 10. A shorter amortization period means...
 - a. Larger payments but less total interest paid
 - b. Smaller payments and less total interest paid
 - c. Larger payments and more total interest paid
 - d. Smaller payments and more total interest paid
- 11. A professionally managed portfolio of various different investments is called a:
 - a. Stock
 - b. Bond
 - c. Mutual fund
 - d. RRSP
- 12. Determine the monthly payment for a four-year loan on a \$18 000 vehicle at 7.8% per year, compounded monthly.
- 13. How much interest do you pay on the loan in question 12? Show your work.
- 14. Given a monthly mortgage payment of \$1150, determine the payment amount for each payment frequency. Show your work.
 - a. weekly
 - b. bi-weekly
 - c. semi-monthly
 - d. accelerated bi-weekly
 - e. accelerated weekly
- 15. For a semi-monthly payment of \$565.00, what is the total amount paid after one year?
- 16. For a bi-weekly payment of \$710.00, what is the total amount paid after one year?
- 17. Determine the future value of \$425 deposited quarterly for 12 years into a fund that pays 3.25% per year, compounded quarterly.
- 18. What is an RRSP and what is the major advantage to investing through one?
- 19. Discuss the advantages and disadvantages of renting a home versus buying one.

- 20. Anna has several debts. She owes \$5000 on a car loan, \$2200 on her credit card, and \$3000 to her parents. She is applying for a consolidation loan that will combine her debts and allow her to start to paying them off.
 - a. Calculate her monthly payment on a 5-year loan at 4.25% per year, compounded monthly.
 - b. Determine the total amount paid on the loan. Show your work.
 - c. How much interest will she have to pay to eliminate her debt? Show your work.
 - d. How much could she save by choosing a 4-year loan? Show your steps.
 - 21. Jack and Jill recently bought their first home for \$329 900. They made a 5% down payment and mortgaged the rest. They get a five-year fixed rate mortgage at 4.2% per year with an amortization period of 25 years.
 - a. Calculate the down payment and the amount to be mortgaged.
 - b. Determine the monthly payment.
 - c. Calculate the total amount paid in five years. Show your work.
 - d. Calculate the total principal and the total interest paid in five years.
 (Quit the TVM Solver first, then press Apps, 1, and scroll down to the one you need...).

e. If they decide to make monthly payments to \$2000 instead (from the beginning of the mortgage), how many years would it take to pay off their mortgage?

f. Assuming an appreciation rate of 3.5%, calculate the estimated value of the home at the end of the 5 year term.

- 22. Hailey is renting a two-bedroom townhouse for \$895 per month plus utilities. She expects to pay \$245 for electricity bi-monthly, \$85 monthly for natural gas, and \$110 quarterly for water.
 - a) Calculate Hailey's average monthly accommodations expenses.
 - b) Estimate her total expenses for one year.

23. Workbook Pg 157 #9

24. Workbook Pg 157 #10