erks)	
When expenses and revenue are	(A) Depreciation
The value that an item losses over	(B) Extended Warranty
time.	(C) Profit
The money spent running a business.	(D) Loss
	(E) Variable Costs
Costs that do not change from month to month.	(F) Net Income
How long a dealer decides you can rent/lease a vehicle for	(G) Residual Value
	(H) Expenses
the payment you make on the	(I) Fixed Costs
15 th and 30 th of every month towards the purchase of a vehicle	(J) Revenue
When a company's expenses are	(K) Break-even Point
more than its revenue.	(L) Lease Term
A company's total profit or loss	(M) Kilometer Allowance
after subtracting expenses from revenue.	(N) Biweekly Payment
When a company's revenues are	(O) Cost of Borrowing
more than its expenses.	(P) 72
The estimated value of the car at the end of the lease.	(Q) 104
Income from normal business activities, usually the sale of goods and/or services.	
Costs that change in amount or in how frequently they are paid.	
the maximum amount of kilometers you can drive yearly on a lease without incurring a penalty	
# of monthly payments in 6 years	
The amount of money a financial institution will make of you after you pay back a loan.	
# of bi-weekly payments in 4 years	

Math 3202 Unit 4 Assignment

Name: _____

Part II:

- 1. Using <u>www.vmrcanada.com</u> And <u>http://www4.bmo.com/popup/loans/Calculator.html</u> to assist you in your mathematics computations.
 - a) Determine the value of a four wheel drive 2014 Toyota Tacoma truck that has leather seats, sunroof, alloy rims with 77,000 km on it. (*2 marks*)

 Wholesale:
 Retail:

b) Determine the cost of the truck in NL with taxes. (2 marks)

_____x ____=____

c) You decide to take out a loan for 6 years at 5.5% interest per year. Using <u>www.bmo4.com</u>, show all workings for the following: (10 marks)

Monthly Payment:

Bi-weekly payment:

Total Paid back to the bank (Under Monthly payments) Total Paid back to the Bank: (Under Bi-weekly payments)

Cost of borrowing:

Cost of borrowing

d) Which payment plan should be cheaper and why? (2 marks)

Math 3202 Unit 4 Assignment Name: _____

2. A new Ford F-150 has a sticker price of \$39,199. This price does not include the following fees:

PDI fee = \$2250 Extra Options Package = \$5200 License fee = \$140

a) Compute the net price of the vehicle including taxes. (For PDI and License fee the taxes do not apply!) (5 marks)

- b) Determine the monthly payment for 6 years at 5.2% interest. (2 marks)
- c) Determine how much it will cost for you to finance this vehicle over 6 years using the monthly payment plan. (5 marks)

3. You decided to lease a car for \$245 monthly for 4 years. The down payment required was \$2000. If you go beyond 20,000 km per year you have to pay a penalty of 20 cents per kilometer.

Determine the total amount you will have to pay the dealer to lease the vehicle over the four year period considering:

a) total monthly payments: (4 marks)

b) down payment:

(2 marks)

c) You plan on driving 102,000 km over the four year lease (Compute the km penalty) (6 marks)

Total = _____(total monthly payments) + _____ (deposit) + _____ = ____

Math 3202 Unit 4 Assignment

Name: _

4. Shawn is buying a new truck. Detail of the pricing are in the table.

Base Price	\$38 650
Duse Thee	\$50 050
Extra Options Package	\$2 500
Extra Options I dekage	Φ2 500
Freight and PDI	\$1.400
I feight and I DI	ψ1 +00

- a) What is the total cost of the truck, including taxes (13%)? (Taxes do not apply to Freight and PDI!) (5 marks)
- b) If Shawn's monthly payment is \$725.51 for 6 years, how much will Shawn have paid for the truck when it is paid off? (4 marks)
- 5. Karen just bought car. She plans on driving 1500 km per month. She is given the option to purchase a "Maintenance Package" for \$1050, which will cover the maintenance for 2 years.

Maintenance	Schedule	Cost (Plus taxes)
Oil Change	6000 km	\$129.99
Air Filter	6000 km	\$15.99
Tire Rotation	once yearly	\$59.99

a) Calculate the cost of oil and air filter changes over the two year period. (Taxes!) (8 marks)

b) Calculate the cost of tire rotations over the two year period. (3 marks)

Math 3202 Unit 4 Assignment

Name: _____

c) Calculate the total cost of A and B.

(2 marks)

d) Should you buy the "Maintenance Package" offered by the dealer? Why or why not? (2 marks)

e) If this vehicle uses, 4.5L/40 km, determine how much it would cost for gas for one year if your drive 1500 km per month. (Use the fact that gas is now \$1.16/Liter). (6 marks)

- 6. Sarah charges \$55.00 for each print sold in her art Studio.
 - a) She sold 40 prints in the month of February. What is her total revenue for the month? (2 marks)

Revenue = _____x ____ = ____

b) For each print she makes she endures an expense, which totals \$40.00. Determine her total expenses for the 40 prints that were sold. (2 marks)

Expenses = _____ z ____ = ____

c) How many prints did she have to sell in order to break even? (What is her break even point? (*Round the number of prints here*) (2 marks)

Month	Revenue	Expenses
Jan	\$7700	\$5250
Feb	\$8160	\$5200
Mar	\$8590	\$5500
Apr	\$0	\$0
May	\$0	\$0
Jun	\$0	\$0
Jul	\$0	\$0
Aug	\$0	\$0
Sept	\$0	\$0
Oct	\$2470	\$2905
Nov	\$4000	\$2585
Dec	\$6658	\$4700

7. The table shows the annual revenue and expenses for an outdoor skating rink.

a) Calculate the average monthly expenses. (3 marks)

b) Calculate the average monthly revenue. (3 marks)

c) Did the business experience a loss during any month(s) of the year? If so which ones. (2 marks)

d) Did this business have an **annual** profit or an **annual** loss? How much? (4 marks)