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Part I: Place the letter of the term matching the definition on the blank provided.
(17 marks)
___ When expenses and revenue are equal

The value that an item loses over time.

The money spent running a business.

Costs that do not change from month to month.

How long a dealer decides you can rent/lease a vehicle for the payment you make on the $15^{\text {th }}$ and $30^{\text {th }}$ of every month towards the purchase of a vehicle

When a company's expenses are more than its revenue.

A company's total profit or loss after subtracting expenses from revenue.

When a company's revenues are more than its expenses.

The estimated value of the car at the end of the lease.
__ $\begin{aligned} & \text { Income from normal business } \\ & \text { activities, usually the sale of }\end{aligned}$
__ Income from normal business $\begin{aligned} & \text { activities, usually the sale of }\end{aligned}$ 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 goods an/or services.
$\qquad$
$\qquad$
(A) Depreciation
(B) Extended Warranty
(C) Profit
(D) Loss
(E) Variable Costs
(F) Net Income
(G) Residual Value
(H) Expenses
(I) Fixed Costs
(J) Revenue
(K) Break-even Point
(L) Lease Term
(M) Kilometer Allowance
(N) Biweekly Payment
(O) Cost of Borrowing
(P) 72
(Q) 104

## Part II:

1. Using www.vmrcanada.com And http://www4.bmo.com/popup/loans/Calculator.html 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 $77,000 \mathrm{~km}$ on it. (2 marks)

Wholesale: $\qquad$ Retail: $\qquad$
b) Determine the cost of the truck in NL with taxes. (2 marks)
$\qquad$ X $\qquad$ $=$ $\qquad$
c) You decide to take out a loan for 6 years at $5.5 \%$ interest per year. Using www.bmo4.com, 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)
$\qquad$
$\qquad$
$\qquad$
2. A new Ford F-150 has a sticker price of $\$ 39,199$. This price does not include the following fees:

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PDI fee =$2250 Extra Options Package =$5200 License fee =$140
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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 $20,000 \mathrm{~km}$ 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 $102,000 \mathrm{~km}$ over the four year lease (Compute the km penalty)
(6 marks)

Total $=$ $\qquad$ (total monthly payments) + $\qquad$ (deposit) + $\qquad$ $=$ $\qquad$
$\qquad$
4. Shawn is buying a new truck. Detail of the pricing are in the table.

| Base Price | $\$ 38650$ |
| :---: | :---: |
| Extra Options Package | $\$ 2500$ |
| Freight and PDI | $\$ 1400$ |

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.
$\qquad$
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?
e) If this vehicle uses, $4.5 \mathrm{~L} / 40 \mathrm{~km}$, 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 $=$ $\qquad$ x $\qquad$
$\qquad$
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 = $\qquad$ x $\qquad$ $=$ $\qquad$
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)
$\qquad$
7. The table shows the annual revenue and expenses for an outdoor skating rink.

| 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 | $\$ 6658$ | $\$ 4700$ |

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)

