Warmup 23-04-13

The total cost of purchasing a new vehicle (including all the options and freight and excise and eco taxes, etc) is \$31,743.00 plus 7% PST and 5% GST. Terri is buying the vehicle with a \$3,500.00 down payment and a loan to finance the remaining balance. The interest rate on the loan is 8% APR compounded monthly, and Terri agrees to repay the loan in five years.

a) Determine the amount of the loan.

b) Calculate the amount of each monthly payment. -> check with a bank

s) Determine the full total cost of buying the vehicle

c) Determine the full total cost of buying the vehicle.

d) How much interest did Terri pay to finance the vehicle?

e) How much would her monthly payments be if she had shopped around and found a bank that would give her a three-year loan at 8% compounded monthly? How much total would she save by paying off the loan in three years instead of 5 years?

PROBLEM SOLVE (Unit A Type of Question)

Problem Solving. Solve using a table (or any other method)

You and eight friends are driving west for a Sun Dance in Calgary. You are taking two cars. Four friends start an hour earlier than you at 9:00 am and travel at a speed of 100 km/hr. You depart an hour later at 10:00 am with Pierre and travel at a speed of 110 km/hr. Determine at what time will you catch up with the first four friends.

Here is the format of a table you may want to use

Time	09:00	10:00	11:00	12:00			
Distance First car	0	100	200				
Distance Your Car		0	110				

There is a way to solve using formulae but that is Applied math!

Conversion Grade 10. How many seconds in a 120 hour Math course?