

# QUIZ 1

**Input instructions:** values should be inputted using a Standard English Keyboard. Enter only the value, without the % sign, spaces, commas, or any other symbols. For example, one-hundred thousand should be entered as 100000.

## Part A: Questions to Answer with your Calculator

The following table shows the monthly total expenditure in 2010 for an economy expressed in thousands of Canadian dollars (CAD).

| Month | Value |
|-------|-------|
| Jan   | 642.1 |
| Feb   | 610.7 |
| Mar   | 580.8 |
| Apr   | 552.4 |
| May   | 525.4 |
| Jun   | 499.6 |
| Jul   | 475.2 |
| Aug   | 451.9 |
| Sep   | 429.8 |
| Oct   | 408.7 |
| Nov   | 388.7 |
| Dec   | 369.7 |

a. What is the total expenditure for January 2010 in millions of CAD (answer with all decimals)?



b. What is the total expenditure for January 2010 in thousands of US dollars (USD) if the exchange rate is 1.34 USD/CAD. Round your answer to the nearest first decimal.



c. What is the monthly growth rate between March 2010 and April 2010 in percentage? Round your answer to the nearest second decimal.



- d. What is the monthly growth rate between October 2010 and November 2010 in percentage, using the log approximation? Round your answer to the nearest second decimal.



- e. What is the annualized growth rate in percentage between January and February 2010 using the exact formula? Round your answer to the nearest second decimal.



- f. What is the annualized growth rate in percentage between November and December 2010 using the approximation formula? Round your answer to the nearest second decimal.



- g. What is the value of the index base 100 = April 2010 in November 2010? Round your answer to the nearest second decimal.

