

Chapter 5 Task for Web

Task

Model Data from Statistics Canada

Part A: Model the Energy Use of Canada's Business Sector

Go to the E-STAT Web site at <http://www.statcan.ca/start.html>.

- Click on **Search CANSIM**.
 - Type **153-0032** in the search box.
 - Click on **Business Sector**.
 - Select **1993 to 2000** as the Reference Period.
 - Click on **retrieve as individual time-series**.
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- If you plan to use a spreadsheet:
 - Click **time as rows** under **CSV** and **retrieve now**.
 - Save the information, and open the file.
 - If you plan to use a graphing calculator:
 - Select **HTML, series listed individually: As is (no annual figure)**. Click on **retrieve now**.
 - Copy the year and energy use data into the lists on the calculator.
1.
 - a) Determine which attribute should go on which axis and graph the data.
 - b) Use regression to determine a linear, quadratic, and exponential model for the data.
 - c) Which model is most appropriate? Explain your reasoning.
 2.
 - a) Describe and interpret the graph.
 - b) Do you think the trend in the graph will continue? Explain.

Part B: Model the Amount of Canada's Federal Debt

Return to **Search CANSIM**.

- Type **385-0010** in the search box.
 - Click on **Gross Federal Government Debt**.
 - Select **1955 to 1997** as the Reference Period.
 - Click on **retrieve as individual time-series**.
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- If you plan to use a spreadsheet:
 - Click **time as rows** under **CSV** and **retrieve now**.
 - Save the information, and open the file.
 - If you plan to use a graphing calculator:
 - Select **HTML, series listed individually: As is (no annual figure)**. Click on **retrieve now**.
 - Copy the year and energy use data into the lists on the calculator.
3.
 - a) Determine which attribute should go on which axis and graph the data.
 - b) Use regression to determine a linear, quadratic, and exponential model for the data.
 - c) Which model is most appropriate? Explain your reasoning.
 4.
 - a) Describe and interpret the graph.
 - b) Do you think the trend in the graph will continue? Explain.

Part C: Model the Birth Rate for Women 40 Years of Age and Over

Return to **Search CANSIM**.

- Type **106-9002** in the search box.
 - Click on **Canada, place of residence of females**.
 - Select **1955 to 1997** as the Reference Period.
 - Click on **Canada, place of residence of females**.
 - Choose **40 years and over** from the age group menu.
 - Choose **live births** from pregnancy outcomes.
 - Choose **number of events** from characteristics.
 - Select **1974 to 1999** as the Reference Period.
 - Click on **retrieve as individual time-series**.
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- If you plan to use a spreadsheet:
 - Click **time as rows** under **CSV** and **retrieve now**.
 - Save the information, and open the file.

 - If you plan to use a graphing calculator:
 - Select **HTML, series listed individually: As is (no annual figure)**. Click on **retrieve now**.
 - Copy the year and energy use data into the lists on the calculator.
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- 5. a)** Determine which attribute should go on which axis and graph the data.
b) Use regression to determine a linear, quadratic, and exponential model for the data.
c) Which model is most appropriate? Explain your reasoning.
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- 6. a)** Describe and interpret the graph.
b) Do you think the trend in the graph will continue? Explain.