

Wrap-Up

Implementing Your Action Plan

1. Look up the most recent census data from Statistics Canada. Pick a geographical region and study the data on age of all respondents by gender. Conjecture a relationship between age and the relative numbers of males and females. Use a table and a graph to organize and present the data. Does the set of data support your conjecture?
2. You may want to compare the data you analysed in step 1 to the corresponding data for other regions of Canada or for other countries. Identify any significant similarities or differences between the data sets. Suggest reasons for any differences you notice.
3. Access data on life expectancies in Canada for males and females from the 1920s to the present. Do life expectancies appear to be changing over time? Is there a correlation between these two variables? If so, use regression analysis to predict future life expectancies for males and females in Canada.
4. Access census data on life expectancies in the various regions of Canada. Select another attribute from the census data and conjecture whether there is a correlation between this variable and life expectancies. Analyse data from different regions to see if the data support your conjecture.

Suggested Resources

- Statistics Canada web sites and publications
- Embassies and consulates
- United Nations web sites and publications such as UNICEF's CyberSchoolbus and World Health Organization reports
- Statistical software (the Fathom™ sample documents include census data for Beverly Hills, California)
- Spreadsheets
- Graphing calculators

WEB CONNECTION

www.mcgrawhill.ca/links/MDM12

Visit the web site above to find links to various census databases.

Evaluating Your Project

To help assess your own project, consider the following questions.

1. Are the data you selected appropriate?
2. Are your representations of the data effective?
3. Are the mathematical models that you used reliable?
4. Who would be interested in your findings? Is there a potential market for this information?

5. Are there questions that arose from your research that warrant further investigation? How would you go about addressing these issues in a future project?
6. If you were to do this project again, what would you do differently? Why?

Section 9.4 describes methods for evaluating your own work.

Presentation

Present the findings of your investigation in one or more of the following forms:

- written report
- oral presentation
- computer presentation (using software such as Corel® Presentations™ or Microsoft® PowerPoint®)
- web page
- display board

Remember to include a bibliography. See section 9.5 and Appendix D for information on how to prepare a presentation.

Preparing for the Culminating Project

Applying Project Skills

Throughout this statistics project, you have developed skills in statistical research and analysis that may be helpful in preparing your culminating project:

- making a conjecture or hypothesis
- using technology to access, organize, and analyse data
- applying a variety of statistical tools
- comparing two sets of data
- presenting your findings

Keeping on Track

At this point, you should have a good idea of the basic nature of your culminating project. You should have identified the issue that will

be the focus of your project and begun to gather relevant data. Section 9.2 provides suggestions to help you clearly define your task. Your next steps are to develop and implement an action plan.

Make sure there are enough data to support your work. Decide on the best way to organize and present the data. Then, determine what analysis you need to do. As you begin to work with the data, you may find that they are not suitable or that further research is necessary. Your analysis may lead to a new approach or topic that you would like to pursue. You may find it necessary to refine or alter the focus of your project. Such changes are a normal part of the development and implementation process.

