

Graphing Data Using Technology

Activity 1: Raw Data and Graphs. *Grade 12 Student Profile?*

Collecting Data from MDM4U Class

1. Collect the following data from the students in your group:
 - a. height, cm;
 - b. age, years;
 - c. number of classes;
 - d. average mark in math class.
2. Open Fathom application, create an empty collection, table. Create 4 attributes for student characteristics. Input the data.
3. Use Graph tool to create appropriate graphs to visually represent the data.
4. Use Histogram to group and analyze the data.
5. Based on the data collected from MDM4U class describe characteristics of the typical grade 12 student.

Activity 2: Create a Histogram using Spreadsheet software. *Salaries for Francois' hockey team* Use the following data to create a Histogram using OpenOffice.org Calc:

Salary, \$	Number of Players
300000	2
500000	3
750000	8
900000	6
1000000	2
1500000	1
3000000	1
4000000	1

Identify and explain any unusual features about the distribution.

Activity 3: ESTAT and Graphs. *Are Casinos Successful?*

Finding Data

1. Log on to the ESTAT website (<http://www.statcan.gc.ca/>)
2. Select **Browse by key resource**
3. Select **CANSIM**
4. Select the **Travel and Tourism** under Browse CANSIM by Subject.
5. Select **Domestic Travel**.
6. Select the table with code **426-0006**.

Creating a Graph

7. From the Add/Remove Data tab:
8. Select **Canada, Quebec, Ontario and British Columbia** from the first list.
9. Select **Went to a casino** from the second list (use the scroll bar).
10. For the range of years, select the most possible (earliest year to the most recent year).
11. Click **Apply**.
12. Use **Beyond 20/20. Retrieve the data. Construct appropriate types of graphs.**