

Data Analysis

You have been introduced to a number of mathematical concepts dealing with the topic of data analysis. You have been introduced to terms such as mean, median, mode and range along with others. You will be working with the data used to create the graphs last week. You will need to refer to your graphs as they contain the data you will use. It would be a good idea to download the data used during the week 6 graphing activities to refer to as well. Be sure to read the questions carefully to ensure that you know what each question is asking. If a number requires rounding ensure that you round the number to the number of places called for.

Bar Graph

- 1) How many travelers travelled to the United Kingdom? _____
- 2) How many more travelers travelled to Mexico than Cuba? _____
- 3) How many travelers travelled to the United Kingdom and China combined?

- 4) What is the median for the data? _____
- 5) What is the mean for the data? _____

Circle Graph

- 1) Which ride was more popular: Canada's Wonderland or Expedition Everest?

- 2) What was more popular: Harry Potter or Expedition Everest and Canada's Wonderland combined?

- 3) What is the mode for the data? _____

Line Graphs

- 1) What are the extremes in monthly temperature for the year:
- 2) High: _____
- 3) Low: _____

- 4) What is the range in monthly temperature for the year? _____
- 5) What is the mean monthly temperature for the four months of June, July, August and September (round to the nearest one)? _____
- 6) What are the extremes in monthly precipitation for the year:
- 7) High: _____
- 8) Low: _____
- 9) What is the range in monthly precipitation for the year? _____
- 10) What is the mean precipitation for the months of three months of January, February and March (round to the nearest one)? _____

Pictograph

Note: North American vehicles include Ford, GMC and Chrysler/Jeep.

- 1) How many vehicles were surveyed in total? _____
- 2) What was the greatest vehicles type recorded? _____
- 3) What were there more of — North American vehicles or Honda and Toyotas combined?

- 4) What was the ratio of Toyotas to Fords? _____ In lowest terms.

- 5) Express the number of GMCs to "Other" vehicles as a fraction. _____ In lowest terms. _____
- 6) What percent of the vehicles were European (round to the nearest one)? _____
- 7) What percent of the vehicles were North America (round to the nearest one)?

- 8) Which vehicle type represents the median of the data? _____