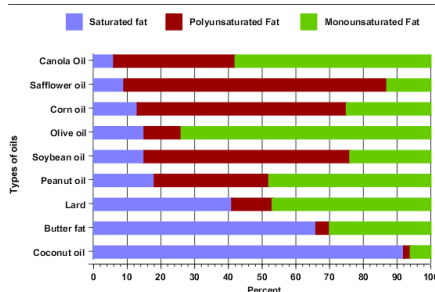


Goals



This week:

- review the statistical investigation process; for example, identifying a problem and posing a statistical question, collecting or obtaining data, analysing the data, interpreting and communicating the results.
- construct a scatterplot, parallel dot plots, and divided bar charts to identify patterns in the data suggesting the presence of an association
- describe an association between two numerical variables in terms of direction (positive/negative), form (linear/non-linear) and strength (strong/moderate/weak)
- use a scatter plot to identify the nature of the relationship between variables

Theoretical Components

Resources:

For this week the theory work is in the *PDF file*:
Week 2 Notes & Exercises

There are links to Mathspace lessons embedded in the Week 2 booklet.

The clip introduces scatterplots

https://www.youtube.com/watch?v=G6Edu_RybxA

A further explanation of scatter plots and correlation is given by

https://www.youtube.com/watch?v=CWnfwZRAuaY&disable_polymer=true

Knowledge Checklist

- Interpret parallel dot plots
- Using an appropriate scale to construct dot plots
- Interpret divided bar charts
- Constructing a divided bar chart
- Determining the relationship between two variables using a scatterplot
- Determining the independent variable
- Constructing a scatterplot

Practical Components

There are questions to be answered in the booklet *Week 2 Notes & Exercises*

Investigation

On HawkerMaths and attached to this week's work

On-line Quiz

Mathspace Task