# MAT013 - R: C1+C2 - Challenge Sheet

## Introduction and Basic Statistics Challenge

The datafile [Stock\_Report.csv](https://dl.dropbox.com/s/4ausy07y5d7ptph/Stock_Report.csv?dl=1) contains data on the stock for a supermarket. There are 4 variables:

* The department of the product
* The name of the product
* The value in loyalty points of the product
* The cost of the product

Answer the following questions:

* How many products are there in each department?
* How much variation is there in the price of the products?
* Is this similar to the loyalty points value?
* Is there a linear relationship between the loyalty points and the price of products?

Prepare a presentation on the above, making full use of the features discussed in chapters 1 and 2 of the course notes. Include the code used in your presentation.