2F Coding

1. A scientist measures the temperature, x°C at five different points in a nuclear reactor. Her results are given below:

$$332,\ 355,\ 306,\ 317,\ 340$$

a) Use the coding $y = \frac{x-300}{10}$ to code this data

b) Calculate the mean and standard deviation of the coded data

c) Use your answer to b) the calculate the mean and standard deviation of the original data.

2. From the large data set, date on the maximum gust, g knots, is recorded in Leuchars during May and June 2015.

   The data was coded using $h = \frac{g-5}{10}$ and the following statistics found:

$$S_{hh} = 43.58$$

$$\bar{h} = 2$$

$$n = 61$$

   Calculate the mean and standard deviation of the maximum gust in knots.