## Homework Solutions

## Chapter 5 - Page 333

## Exercise 11

(a) Use the TI-83. Enter the data into a list and use 1-Var-Stats to get $s$. We get
(i) $s=9.016$.
(ii) $s=0$.
(iii) $s=2.669$.
(b) The standard deviation for data set (i) is so large because of the outlier 27. It has a very large deviation which was averaged in with the rest, increasing the size of the standard deviation.
(c) The ranges are
(i) Range $=27-1=26$.
(ii) Range $=7-7=0$.
(iii) Range $=11-3=8$.

The range is misleading for data set (i). Except for the 27, there data are tightly clustered.

