Quartiles

1. For each data set below find the

(i) Five figure summary   (ii) Interquartile range

a.	17	18	20	22	22	22	25	27	
b.	18	23	23	24	27	28	28	30	31
c.	15	17	12	15	19	26	28		
d.	22	19	15	30	27	22	26	30	21
e.	25	27	34	12	26	17	27		

2. Rank each of the data sets in question 1 from smallest to highest average score.

3. Rank each of the data sets in question 1 from most consistent to least consistent.

4. In ten rounds of golf Robert scored

$$78 \quad 75 \quad 89 \quad 82 \quad 80 \quad 71 \quad 75 \quad 83 \quad 82 \quad 83$$

a. Find the median of the 10 rounds of golf.

b. Find the interquartile range for the 10 rounds of golf.

After training Robert had a a median score of 78 and a interquartile range of 6.5.

c. Write two valid comments comparing Robert's golf scores before and and after the training sessions.

5. The number of sweets in jars are recorded below.

165	173	165	161	168	155	158	154

a. Find the median number of sweets in the jars.

b. Find the interquartile range of this sample of sweets.

A second sample of sweet jars was found to have a median of 160 sweets and a interquartile range of 11.25.

c. Write two valid comments comparing the number of sweets in each sample.

6. For each boxplot below find the:

 (i) Figure figure summary   (ii) Interquartile range   (iii) Semi-interquartile range.

19   31   47   53   64   15   25   29 30   35