



## Leith Academy National 5 Home Learning



### AVERGAES AND SPREAD

### CALCULATOR

1) For each set of values calculate (i) the median, (ii) the upper and lower quartiles, (iii) the range and (iv) the semi-interquartile range.

- a) 3, 5, 5, 8, 10, 12, 12      b) 23, 41, 28, 35, 25, 38, 42, 30, 33  
c) 61, 45, 78, 54, 64, 36, 79, 67, 56, 94, 23, 56, 88, 49

2) For each set of values calculate (i) the mean and (ii) the standard deviation.

- a) 4, 3, 6, 10, 7      b) 24, 21, 28, 22, 29, 26      c) 83, 47, 66, 70, 72, 52, 65

3) The following numbers show the weights of a sample of six loaves of bread in grams.

750, 790, 810, 770, 830, 760

- a) Calculate the mean and the standard deviation.  
b) The mean of a second sample was 790g and the standard deviation was 27.8g. Make two comments comparing the two samples.

4) Shown below are two sets of numbers.

**Set1** 4, 2, 7, 6, 7, 3, 5, 8, 4

**Set2** 2, 3, 9, 6, 8, 7, 7, 6, 2, 10

Calculate the median and the semi-interquartile range for both sets and make two comments comparing the two sets of numbers.