

Calculating Standard Deviation

1. Below is a table show 10 data sets.

Data Set 1	12	20	13	14	16				
Data Set 2	8	10	17	12	10	15			
Data Set 3	13	14	13	16					
Data Set 4	23	17	29	28	32	21			
Data Set 5	5	6	7	5	6	5	9	13	

- a. Calculate the mean of each data set
- b. Calculate the standard deviation of each data set.

2. The waiting times, in minutes, to speak to a mobile phone provider, *Alpha*, are

17 13 19 38 20 19

- a. Calculate the mean and standard deviation of the waiting times.

The mean of a second mobile phone provider, *Beta*, provider was 25 minutes and the standard deviation was 5.9.

- b. Write two valid statements comparing the waiting times for each company.

3. Mhairi noted her test score, as a percentage, in each of her last 5 maths tests.

78 90 82 62 85

- a. Calculate the mean and standard deviation of the test results.

She also recored her chemistry test scores. The mean was 86% and the standard deviation was 8.2.

- b. Write two valid statements comparing her results from her maths and chemistry tests.