

**Comparing Distributions.**

- 1). a). In the last 8 tennis matches here are the number of "aces" served by Bert.

7 4 9 8 7 3 5 4.

Find the range and mean of the number of "aces".

- b). Arnold has a mean of 5.5 "aces" per match and a range of 4.  
Who is better at serving ? Give reasons.



- 2). a). Dora serves chips in the canteen. Here are the number of chips put on the last 6 plates.

24 36 28 27 35 27.

Find the range and mean of the number of chips served.

- b). Henry also serves chips on Dora's day off. The mean number of chips he serves is 27 with a range of 5. Who would you prefer to serve you ? Give reasons.

- 3). a). Sharon the sprinter runs the 100m. Here are her last 5 times.

10.9 10.2 10.6 10.4 11.0.

Find her mean and range.

- b). Bessie has a mean time of 10.51 for the 100m and a range of 1.4 seconds.  
Who is the better sprinter ? Give reasons.

- 4). a). Bob and Jan deliver eggs on their milk round. Last week this is how many eggs Jan broke each day. 7 6 3 13 2 6 12.

Find the mean and range of these breakages.

- b). Bob has a mean of 9 and a range of 4 for eggs he breaks.  
Who would you prefer to deliver eggs to your house ? Give reasons.

- 5). a). Peggy and Bob go Springboard diving. Here are Bobs first 8 scores.

6 5 6 8 5 5 8 5

Find the mean and range of these scores.

- b). Peggy scores 9 8 2 6 8 4 6 9

Find the mean and range of these scores.

Who is the better Springboard diver ? Give reasons.



- 6). a). Two groups take a History test. Anthony writes down the scores in his group.

38 25 19 22 40 22 49 34 44 25

Find the mean and range of these scores.

- b). Jim writes down the scores for his group. The lowest is 12 and the range is 28.

i). What is the highest score in his group ?

ii). The mean is 25, which is the better group ? Give reasons.

- 7). a). The weekly wage for 10 workers at a factory (in £) is

169 148 175 138 157 163 164 147 178 561

Find the mean and range of these scores.

- b). The weekly wage for 10 shop workers has a range of £50, the highest being £210.

i). What is the lowest wage in this shop ?

ii). The mean is £180, which is the better paid ? Give reasons.

- 8). Andrew 10.4 12.7 11.4 10.8 12.2 10.9

Bob 10.3 11.9 12.5 11.9 11.8 10.8

Andrew and Bob run 100 metre races. Above are their last 6 times, each in seconds.

- a). Find the mean and range for each runner.

- b). Give reasons for who is the better runner.