A company operates a bus route from the city centre to the airport.

The number of passengers on six of its buses on a Monday was

32   27   34   29   31   33.

(a) Calculate the mean and standard deviation of the number of passengers.   **4**

(b) The mean number of passengers the following Saturday was 28 and the standard deviation was 3·2.

Make two valid comments comparing the number of passengers on each bus on Monday and Saturday.   **2**

Answers:

(a)   Mean = 31

Standard deviation = 2.6 (approx.)

(b)   On average, there were more passengers on Monday.

The number of passengers was more consistent on Monday.

(or equivalent statements)