- 1. Sara is investigating the variation in daily maximum gust, t kn, for Camborne in June and July 1987.
 - 1987. Sara selected the first value using a random number from 1 to 4 and then selected every third value after that.(a) State the sampling technique Sara used.

She used the large data set to select a sample of size 20 from the June and July data for

- (b) From your knowledge of the large data set explain why this process may not
- generate a sample of size 20.

The data Sara collected are summarised as follows

$$n = 20 \qquad \sum t = 374 \qquad \sum t^2 = 7600$$

(c) Calculate the standard deviation.

(2)