

1. Given the data : 75, 80, 82, 87, 96

(a) Find the sample mean, the sample variance and sample standard deviation s .

(b) Find the population variance and population standard deviation σ .

Answer: (a) $\bar{x} = 84$, $s^2 = 105$, $s \approx 10.25$ (b) $\sigma^2 = 50.8$, $\sigma \approx 7.13$

2. Find the interquartile range from the following set of golf scores:

$$S = \{67, 69, 70, 71, 74, 77, 78, 82, 89\}$$

$$\text{Ans: } Q_3 - Q_1 = 11.5$$

3. The following table gives the scores of 10 friends on their Math exams:

Name	Math Exam Score (%)
Albert	75
Beatrice	85
Camille	85
David	78
Eugene	83
Frank	67
George	10
Harry	77
Ivan	82
Jack	80

(a) Find the mean of the scores including the outlier.

(b) Find the mean of the scores excluding the outlier.

Ans: (a) 72.2

(b) 79.11