

## Standard Deviation Questions

1. Calculate the standard deviation of each data set.

(a) 1, 2, 3, 4, 5, 6, 7, 8

(b) 45, 47, 43, 45, 34, 56

(c) 90, 91, 93, 88, 90, 94

(d) 80, 90, 65, 70, 60, 50, 40

2. Calculate the mean of each data set.

Set (a)

X	3	4	5	6	7	8
Frequency	2	4	1	5	3	5

Set (b)

X	12	14	16	18	20	22	24
Frequency	2	3	1	5	1	4	4

Set (c)

X	20	21	22	23	24
Frequency	3	4	2	5	6

3. Calculate the standard deviation of each of the above data sets.

Answers:

1 (a) 2.291288 (b) 6.454972 (c) 2 (d) 15.81139

2 (a) 5.9 (b) 18.8 (c) 22.35

3 (a) 1.7 (b) 4.01995 (c) 1.458595