

HW #60

1. List the steps for calculating the standard deviation of a data set.

2. Find the mean, median, mode, range and the standard deviation of the following data set. (Round all numbers in the table to the tenth – one decimal place)

a) Experiment A = 1, 3, 5, 15, 2, 11, 12, 9

Mean -

Median-

Mode-

Range-

Data Item	Difference	Difference ²

Mean of Squared Differences –

Standard Deviation -

b) Experiment B = 21, 23, 24, 25, 29, 16, 34, 39

Mean -

Median-

Mode-

Range-

Data Item	Difference	Difference ²

Mean of Squared Differences –

Standard Deviation -

c) Experiment C = 101, 117, 114, 107, 123, 121, 109, 110

Mean -

Median-

Mode-

Range-

Data Item	Difference	Difference ²

Mean of Squared Differences –

Standard Deviation -

Answer Key:

a) Mean = 26.375; Median = 24.5; Mode - none; Range - 23; Mean of Sq. Diff = 47.4844; S.D. = 6.8909

b) Mean = 112.75; Median = 112; Mode - none; Range - 22; Mean of Sq. Diff = 48.1875; S. D. = 6.9417