$$\sqrt{\frac{ST\Delta}{DE\nabla}}$$

Worksheet no.2

Standard deviation

No.1: What is the standard deviation? Write its formula.

Defination:_____
_____

Formula:

No.2: Find the asked values.

(a) 52, 56, 74, 133, 136, 144, 157, 159
Mean =
Square of Sum of difference =
Variance =
Standard deviation =

(b) 119, 87, 138, 155, 141, 164, 82, 69
Mean =
Square of Sum of difference =
Variance =
Standard deviation =

(c) 0, 2, 3, 5, 7, 8, 9, 10
Mean =
Square of Sum of difference =
Variance =
Standard deviation =

(d) 13, 14, 17, 22, 23, 25, 29, 30
Mean =
Square of Sum of difference =
Variance =
Standard deviation =

(e) 72, 38, 43, 54, 25, 56, 77, 24
Mean =
Square of Sum of difference =
Variance =
Standard deviation =

No.2:

(a) 52, 56, 74, 133, 136, 144, 157, 159
Mean = 10
Square of Sum of difference = 14430.070
Variance = 2060.982
Standard deviation = 45.398

(b) 119, 87, 138, 155, 141, 164, 82, 69
Mean = 119.375
Square of Sum of difference = 9060.280
Variance = 1293.982
Standard deviation = 35.972

(c) 0, 2, 3, 5, 7, 8, 9, 10
Mean = 5.5
Square of Sum of difference = 90
Variance = 12.857
Standard deviation = 3.586

(d) 13, 14, 17, 22, 23, 25, 29, 30
Mean = 21.625
Square of Sum of difference = 292.280
Variance = 41.696
Standard deviation = 6.457

(e) 72, 38, 43, 54, 25, 56, 77, 24
Mean = 48.625
Square of Sum of difference = 2745.160
Variance = 391.982
Standard deviation = 19.799