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

Standard deviation WorkSheets

MCQs:

1) Standard deviation is the measure of

   a) Data mean
   b) Data dispersion
   c) Total of the data
   d) None of the these

2) The formula for standard deviation is:

   a) $\displaystyle\sum_{i=1}^{n} \frac{N-1}{(x_i - \bar{x})^2}$

   c) $\displaystyle\sqrt{\sum_{i=1}^{n} \frac{N-1}{(\bar{x} - x_i)^2}}$

   b) $\displaystyle\sqrt{\sum_{i=1}^{n} \frac{(\bar{x} - x_i)}{N-1}}$

   d) $\displaystyle\sqrt{\sum_{i=1}^{n} \frac{(x_i - \bar{x})^2}{N-1}}$

3) The first step to finding the standard deviation is

   a) Calculating N-1
   b) Finding the mean
   c) Either
   d) None

4) The standard deviation for the data below is between.
   (40, 41, 31, 22, 29, 45, 30, 37, 36)

a) 6.9 - 7.2
b) 7.2 - 7.5
c) 6.0 - 6.8
d) 7.9 - 8.0

5) Fill in the correct value to complete the set where the standard deviation is **11.456**.
(12, 6, 34,___, 28, 32, 18, 40, 35)

a) 8
b) 29
c) 13
d) 40

6) Imagine three numbers **x,y**, and **z** with a standard deviation of **k**. What will be the standard deviation if you add 3 to each number i.e **x + 3**, **y + 3**, and **z + 3**?

a) k
b) k + 3
c) x + y + z
d) 3k

7) The standard deviation of a set of natural numbers from **1 to 10** is:

a) 0
b) 1
c) 3.028
d) 10

8) The standard deviation of **(3,3,3,3,3,3)** is:

a) 0
b) 1
c) 6

d) none

9) The notation for population standard deviation is:

   a) σ
   b) μ
   c) ω
   d) Ω

10)   The standard deviation of **1**,**2** and **3** is

   a) 0
   b) 1
   c) -1
   d) 1.78

Solutions

1) C   2) D   3) C   4) A   5) B   6) A   7) C
8) 0   9) A   10) B