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EDU821

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1. Calculate the standard deviation of the scores presented in the table.

(a) 3. 81

--->> (b) 3.55

(c) 3.00

(d) 3. 25

2. Calculate  $\sum(x-x\bar{ })^2$

(a) 70

(b) 88

(c) 158

--->> (d) 0

3. One of these is NOT a condition for using the Pearson product moment correlation.

(a) The two variables correlated are continuous

(b) The scores are obtained in independent pairs

--->> (c) The scale used to obtain scores are ratio or interval

(d) The scatter gram are homoscedastic

4. What is the value of  $x\bar{ }^2$  ( in the table)

(a) 9

--->> (b) 10

(c) 8.5

(d) 7.2

5. List the values in column  $(x-x\bar{ })^2$

(a) -25, -16, -1, 0, 1, 9, 36

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---> (c) 25, 16, 1, 0, 1, 9, 36

(d) 15, 14, 10, 0, 11, 7, 4

6. The science which specializes in organizing and summarizing generated information for decision making is \_\_\_\_\_

(a) Informatics

(b) Information and communication technology

---> Statistics

Cybernetics

7. List the values in column  $x - \bar{x}$

(a) 25, 16, 1, 0, 1, 9, 36,

---> (b) 5, 4, 1, 0, -1, -3, -6

(c) 5, 4, 1, 0, 1, 3, 6

(d) 25, 16, 1, 0, -1, -9, -36

8. Parameters describe numerical properties of

(a) Sample

---> (b) Population

(c) Estimates

(d) Statistics

9. Using the values in the table determine  $S^2$  (variance)

(a) 13

(b) 3.5

(c) 8.2

---> (d) 12.57

10. what is the formula for the standard deviation of the scores?

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(b)  $S_d = \bar{x}^2 - (\bar{x})^2$  Nn

(c)  $S_d = (s^2)$  2

(d)  $S_d = (x^2 - \bar{x}^2)2$

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