

STT102

=====

1. What is the mean of the numbers 0; 1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20?

--->> 10

12

12

13

2. Arrange the numbers 17, 45, 38, 27, 6, 48, 11, 57, 34, and 22 in an array and determine the range.

11

--->> 51

57

45

3. In a sample of five measurements, the diameter of a sphere was recorded by a scientist as 6.33, 6.37, 6.36, 6.32, and 6.37 centimeters (cm). Determine unbiased and efficient estimates of the true mean

6.65 cm

6.50 cm

6.45 cm

--->> 6.35 cm

4. A sample poll of 100 voters chosen at random from all voters in a given district indicated that 55% of them were in favour of a particular candidate. Find the 95% confidence limits for the proportion of all the voters in favour of this candidate.

± 0.10

± 0.10

--->> ± 0.10

Whatsapp: 08089722160 or click here for TMA assistance

Practice E-exams & Chat with course mates on [noungeeks.net](https://www.noungeeks.net)

Join group: [T.me/NOUNSTUDENTSFORUM](https://t.me/NOUNSTUDENTSFORUM) CLICK TO DOWNLOAD MORE TMA PQ

5. A dietician believes that an average person with an income below the poverty level gets less than the recommended daily allowance (RDA) of 800mg of calcium. When testing his guess, he obtained the following daily intakes of calcium for a random sample of 10 people with incomes below the poverty level: 686, 994, 740, 648, 1110, 992, 430, 772, 670, 690. Calculate the Test Statistics Z.

--->> -0.52

0.52

$\sqrt{-0.62}$

0.62

6. If $(Z = \sqrt{4X - 3Y})$, find the value of Z corresponding to $(X = 1, Y = -15)$.

13

14

--->> 49

19

7. Which of the following is a discrete variable

Temperature

Velocity

--->> Number of patients

Force

8. The probability of sun to rise from the east is

$\sqrt{0}$

--->> 1

-1

0.5

9. A random sample of 50 mathematics grades out of a total of 200 showed a mean of 75 and a standard deviation of 10. What are the 95% confidence limits for estimates of the mean of the 200 grades?

Whatsapp: 08089722160 or click here for TMA assistance

Practice E-exams & Chat with course mates on noungeeks.net

Join group: T.me/NOUNSTUDENTSFORUM
CLICK TO DOWNLOAD MORE TMA PQ

$\sqrt{25}$

$\sqrt{45}$

$\sqrt{65}$

10. Find the product-moment correlation coefficient (r) if $(\sum xy=1600.4, \sum x^2=582.77, \sum y^2=4414.14)$

0.498

0.598

0.798

---> 0.998

Whatsapp: 08089722160 or click here for TMA assistance

Practice E-exams & Chat with course mates on noungeeks.net