

How meaningful is the range of a data set?

**MTH 233 Week 2 DQ 4**

When is it more appropriate to use the standard deviation of data rather than the variance of data? Is one a better measure of dispersion than the other? Explain

**MTH 233 Week 3 DQ 1**

What are the five steps used in hypothesis testing? How do you decide on an alpha significance level?

**MTH 233 Week 3 DQ 2**

What is the difference between a critical value and a test statistic? How do you decide which test statistic to use?

**MTH 233 Week 3 DQ 3**

When is it appropriate to use a one-tailed test versus a two-tailed test? Does direction of the test affect statistical significance? Explain

**MTH 233 Week 3 DQ 4**

What are degrees of freedom? Illustrate with one new example.

**MTH 233 Week 3 Team Assignment Project Progress (Paper 1)(Paper2)**

**MTH 233 Week 4 DQ 1**

In two-sample testing, when is it appropriate to use a  $t$  test versus a  $z$  test?

**MTH 233 Week 4 DQ 2**

What are the criteria for using a  $t$  test for independent and dependent samples?

**MTH 233 Week 4 DQ 3**

What are the assumptions in ANOVA? Which assumption is most important? Why?

**MTH 233 Week 4 DQ 4**