



ACADGILD

SESSION 3: STATISTICS (CONTD.)

Assignment 3

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1. Introduction

This assignment will help you understand the concepts learnt in the session.

2. Objective

This assignment will test your skills on the concepts of statistics.

3. Prerequisites

Not applicable.

4. Associated Data Files

Not applicable.

5. Problem Statement

1. BMW Company is testing the top speed of its new model X70

It has tested 100 units and found the avg top speed to be 230Km/hr with a std dev of 10km/hr

Whereas company believes the avg top speed to be 260Km/hr.

Company asks: Do you think being in Indian Road affects the top speed?

No. Indian Road may affect the top speed, but the vehicle has only .0013% chance of that speed.

2. On an average, males drink 2L water per day with standard deviation $\sigma = 0.7L$. We are planning for a full day trip for 50 Men with 110L of water.

- What is the probability that we will run out of water? **38.75%**
- With a Significance level of 5 %, can we say that we will run of water? **No.**

6. Expected Output

N/A

7. Approximate Time to Complete Task