**ANAVO Problem Statement Report**

There are Three main Brands for Electrical Things ,A set of 56 Things are examined and found to be allocated among 4 Things (Air Conditioner,Refrigerator,Washing Machine, Television) and three Brands are Onida,Whirlpool,Panosonic

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Brands | Things | | | |
| Air Conditioner | Refrigerator | Washing Machine | Television |
| Onida | 5 | 4 | 4 | 6 |
| Whirlpool | 8 | 5 | 8 | 0 |
| Panosonic | 5 | 3 | 0 | 8 |

Is there any significant Difference in Brand Preference?

The Following Table shows the Brand Of Bikes in India and Their Mileage in Kilometres per litre With different conditions. How it works in varying conditions (urban vs. highway, load, and hills) as (A , B,C,D) affect fuel efficiency.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bike** | **Mileage in kilometres** | | | |
| A | B | C | D |
| **Honda SP 160** | 65 | 66 | 62 | 60 |
| Yamaha Fascino 125 | 68 | 70 | 68 | 63 |
| TVS Sport Yamaha | 68 | 70 | 67 | 62 |
| Bajaj Platina 100 | 67 | 70 | 66 | 60 |

Perform an Analysis of Variance Test of these Brand Of Bikes.

Four Teachers Teaches The Soft Skills to Set of Students in 5 days and the number of hours they train them in a Day.Observe the improvement of the Students .The Results are as follow.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Teacher | Days (hour in minutes) | | | | |
| 1 | 2 | 3 | 4 | 5 |
| Abi | 65 | 60 | 65 | 60 | 60 |
| Yasmi | 70 | 60 | 60 | 65 | 70 |
| Rasmi | 60 | 70 | 60 | 60 | 45 |
| Raji | 70 | 80 | 65 | 70 | 60 |

Discuss the Difference between the Teachers and Training Hours

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The Following Table to evaluate the effects of different fertilizers (organic, synthetic, and control) and farming practices (conventional tillage, no-till, and organic farming) on crop yields.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| farming practices | fertilizers (kg) | | | |
| A | B | C | D |
| Conventional Tillage | 240 | 300 | 230 | 260 |
| No-Till | 269 | 320 | 250 | 230 |
| Organic Farming | 280 | 310 | 260 | 200 |

Perform an Analysis of Variance Test to identify the combinations of maximizing Crop productivity.

Some Teachers Teaches computer courses to Set of Students. they uses different teaching methods and course Format for Each Batch . Observe the Score Result For Each batch of the Students .The Results are as follow.

|  |  |  |  |
| --- | --- | --- | --- |
| Teaching Methods | Course Formats | | |
| Class Room | Online | Hybrid |
| Programming | 85 | 75 | 76 |
| Machine Learning | 70 | 70 | 78 |
| Data Science | 70 | 78 | 60 |
| Computation | 80 | 80 | 65 |

Discuss the Difference between the effectiveness of different teaching methods and course formats .

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