**Debido a que toda la clase fue dedicada a explicarle a un solo compañero cómo se realizaba el ejercicio, me parece prudente solo adjuntar la evidencia de la realización de la participación en clase. Adicionalmente, en la tarea 3 he detallado paso por paso el mismo procedimiento a seguir para el cálculo de esta participación.**

Se cuenta con la siguiente información extraída de la SCT, tarifas y destinos con origen en CDMX (655)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Aerolínea** | **Origen** | **Destino** | **Tarifas Negociadas** |
|  |
| 622 | Interjet | AICM | Villahermosa | $2,083 |  |
| 464 | Volaris | AICM | Oaxaca | $1,224 |  |
| 347 | Aeroméxico | AICM | Mazatlán | $4,570 |  |
| 393 | Interjet | AICM | Mérida | $3,719 |  |
| 294 | Interjet | AICM | Hermosillo | $2,532 |  |
| 267 | Aeroméxico | AICM | Hermosillo | $3,903 |  |
| 122 | Interjet | AICM | Guadalajara | $3,110 |  |
| 632 | Interjet | AICM | Zihuatanejo | $2,620 |  |
| 454 | Interjet | AICM | Mérida | $3,562 |  |
| 109 | Interjet | AICM | Guadalajara | $3,100 |  |
| 93 | Aeroméxico | AICM | Guadalajara | $3,599 |  |
| 619 | Aeroméxico | AICM | Villahermosa | $4,697 |  |

**PRUEBA PILOTO**

|  |  |  |  |
| --- | --- | --- | --- |
| **Estadísticas** | | | |
|  |
| **Prueba Piloto** | | | |  |
| **Tamaño de muestra prueba piloto** | | | **25** |  |
|  |  |  |  |  |
| **Tamaño de la población N** | |  | **655** |  |
|  | Shape  Description automatically generated with medium confidenceShape  Description automatically generated with medium confidence | |  |  |
|  |  |  |
| **Media Muestral** | **3,020.9** |  |
|  |  |  |
|  |  |  |
| **s²** | **819,401.2** |  |
|  |  |  |
|  |  |  |  |  |
|  | Shape  Description automatically generated with medium confidence | |  |  |
| **Varianza Media** | **31,525.1** |  |
|  |  |  |
| **Error Estándar Media** | |  | **177.6** |  |
|  |  |  |  |  |
| **a** |  |  | **0.05** |  |
| **Z95%** |  |  | **1.96** |  |
| **t95%,24** |  |  | **2.0639** |  |
|  |  |  |  |  |
| **Tamaño de muestra** | | Shape  Description automatically generated with medium confidenceShape  Description automatically generated with low confidence |  |  |
| **d** | **400** | **19.67** |  |
| **Z95%** | **1.96** |  |  |
|  |  | **19.10** |  |
|  |  |  |  |
|  |  |  |  |

**MUESTRA DEFINITIVA**

|  |  |  |  |
| --- | --- | --- | --- |
| **Muestra Definitiva** | | | |
| **Tamaño de muestra n** | |  | **20** |
|  |  |  |  |
| **Tamaño de la población N** | |  | **655** |
|  | Shape  Description automatically generated with medium confidence | |  |
|  |  |
| **Media Muestral** | **2,994.2** |
|  |  |
|  |  |
| **s²** | **1,278,306.6** |
|  |  |
|  |  |  |  |
|  | Shape  Description automatically generated with medium confidence | |  |
| **Varianza Media** | **61,963.7** |
|  |  |
| **Error Estándar Media** | |  | **248.9** |
|  |  |  |  |
|  |  |  |  |
|  | Shape  Description automatically generated with medium confidence   |  | | --- | |  | |  |  |
| **Total Estimado** |  |  | **1,961,201.0** |
|  |  |  |  |
|  | Shape  Description automatically generated with medium confidence | |  |
| **Varianza Total** | **26,583,983,411.3** |
|  |  |
| **Error Estándar Total** | |  | **163,046.0** |
|  |  |  |  |
|  |  |  |  |
| **a** |  |  | **0.05** |
| **Z90%** |  |  | **1.9600** |
| **t90%,24** |  |  |  |
| **Intervalos de** | Shape  Description automatically generated with medium confidence   |  | | --- | |  | | **LI** | **2,506.32** |
| **Confianza Media** |  | **LS** | **3,482.08** |
|  |  |  |  |
|  |  |  |  |
| Shape  Description automatically generated with medium confidence   |  | | --- | | **Intervalos de** | |  | **LI** | **1,641,636.80** |
| **Confianza Total** |  | **LS** | **2,280,765.20** |

**INTERVALO DE CONFIANZA QUE SÍ CONTIENE A LA MEDIA POBLACIONAL**

**A picture containing table

Description automatically generated**

**MUESTRAS CON LAS QUE TRABAJÉ (MUESTREO ALEATORIO SIMPLE)**

|  |  |
| --- | --- |
| **Piloto** | **Definitiva** |
| **Tarifa Muestra** | **Tarifa Muestra** |
|  |
| **$4,367** | **$2,083** |  |
| **$2,729** | **$1,224** |  |
| **$5,407** | **$4,570** |  |
| **$3,092** | **$3,719** |  |
| **$1,224** | **$2,532** |  |
| **$2,732** | **$3,903** |  |
| **$3,300** | **$3,110** |  |
| **$2,256** | **$2,620** |  |
| **$1,889** | **$3,562** |  |
| **$1,930** | **$3,100** |  |
| **$3,222** | **$3,599** |  |
| **$2,447** | **$4,697** |  |
| **$2,945** | **$2,648** |  |
| **$2,749** | **$3,222** |  |
| **$2,768** | **$1,889** |  |
| **$3,599** | **$2,078** |  |
| **$3,562** | **$2,860** |  |
| **$2,330** | **$5,404** |  |
| **$4,338** | **$1,840** |  |
| **$3,698** | **$1,224** |  |
| **$3,315** |  |  |
| **$2,999** |  |  |
| **$1,841** |  |  |
| **$3,222** |  |  |
| **$3,562** |  |  |