|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Page No.** | **No. Of Words(yi)** | **yi2** |
| 1 | 58 | 26 | 676 |
| 2 | 83 | 16 | 256 |
| 3 | 361 | 35 | 1225 |
| 4 | 116 | 18 | 324 |
| 5 | 85 | 18 | 324 |
| 6 | 192 | 25 | 625 |
| 7 | 291 | 29 | 841 |
| 8 | 358 | 26 | 676 |
| 9 | 181 | 16 | 256 |
| 10 | 114 | 17 | 289 |
| 11 | 46 | 15 | 225 |
| 12 | 539 | 11 | 121 |
| 13 | 176 | 12 | 144 |
| 14 | 125 | 13 | 169 |
| 15 | 238 | 22 | 484 |
| 16 | 20 | 8 | 64 |
| 17 | 529 | 33 | 1089 |
| 18 | 49 | 8 | 64 |
| 19 | 35 | 19 | 361 |
| 20 | 388 | 34 | 1156 |
| 21 | 15 | 19 | 361 |
| 22 | 82 | 31 | 961 |
| 23 | 216 | 24 | 576 |
| 24 | 368 | 25 | 625 |
| 25 | 385 | 15 | 225 |
| 26 | 295 | 29 | 841 |
| 27 | 306 | 31 | 961 |
| 28 | 20 | 24 | 576 |
|  | **Total** | **599** | **14495** |

Exp1

|  |  |  |  |
| --- | --- | --- | --- |
| Signature Per Sheet(yi) | No. Of Sheets(fi) | fiyi | fiyi2 |
| 50 | 5 | 250 | 12500 |
| 48 | 7 | 336 | 16128 |
| 45 | 3 | 135 | 6075 |
| 43 | 2 | 86 | 3698 |
| 41 | 3 | 123 | 5043 |
| 39 | 2 | 78 | 3042 |
| 35 | 2 | 70 | 2450 |
| 32 | 2 | 64 | 2048 |
| 30 | 1 | 30 | 900 |
| 29 | 1 | 29 | 841 |
| 25 | 3 | 75 | 1875 |
| 22 | 2 | 44 | 968 |
| 16 | 1 | 16 | 256 |
| 4 | 2 | 8 | 32 |
| 3 | 4 | 12 | 36 |
| Total | 40 | 1356 | 55892 |

Exp2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. No. | Population in Thousands | yi | No. Of Cities(fi) | fiyi | fiyi2 |
| 1 | 50-100 | 75 | 25 | 1875 | 140625 |
| 2 | 100-150 | 125 | 19 | 2375 | 296875 |
| 3 | 150-200 | 175 | 15 | 2625 | 459375 |
| 4 | 200-250 | 225 | 13 | 2925 | 658125 |
| 5 | 250-300 | 275 | 22 | 6050 | 1663750 |
| 6 | 300-350 | 325 | 32 | 10400 | 3380000 |
| 7 | 350-400 | 375 | 15 | 5625 | 2109375 |
| 8 | 400-450 | 425 | 17 | 7225 | 3070625 |
| 9 | 450-500 | 475 | 11 | 5225 | 2481875 |
| 10 | 500-550 | 525 | 8 | 4200 | 2205000 |
| 11 | 550-600 | 575 | 6 | 3450 | 1983750 |
| 12 | 600-650 | 625 | 2 | 1250 | 781250 |
| 13 | 650-700 | 675 | 1 | 675 | 455625 |
| 14 | 700-750 | 725 | 3 | 2175 | 1576875 |
| 15 | 750-950 | 850 | 2 | 1700 | 1445000 |
| 16 | 950-1150 | 1050 | 3 | 3150 | 3307500 |
| 17 | 1150-1400 | 1275 | 2 | 2550 | 3251250 |
| 18 | 1400-1900 | 1650 | 1 | 1650 | 2722500 |
| 19 | 1900-2150 | 2025 | 2 | 4050 | 8201250 |
| 20 | 2150-2500 | 2325 | 2 | 4650 | 10811250 |
|  |  | Total | 201 | 73825 | 51001875 |

Exp3

Exp5

|  |  |  |
| --- | --- | --- |
|  | **1st Stratum** |  |
| S.No. | yi | yi2 |
| 1 | 1100 | 1210000 |
| 2 | 1079 | 1164241 |
| 3 | 963 | 927369 |
| 4 | 956 | 913936 |
| 5 | 915 | 837225 |
| 6 | 879 | 772641 |
| 7 | 879 | 772641 |
| 8 | 870 | 756900 |
| 9 | 822 | 675684 |
| 10 | 818 | 669124 |
| 11 | 789 | 622521 |
| 12 | 785 | 616225 |
| 13 | 738 | 544644 |
| 14 | 717 | 514089 |
| 15 | 714 | 509796 |
| 16 | 693 | 480249 |
| Total | 13717 | 11987285 |

|  |  |  |
| --- | --- | --- |
|  | **2nd Stratum** |  |
| S.No. | yi | yi2 |
| 1 | 659 | 434281 |
| 2 | 652 | 425104 |
| 3 | 651 | 423801 |
| 4 | 640 | 409600 |
| 5 | 637 | 405769 |
| 6 | 636 | 404496 |
| 7 | 629 | 395641 |
| 8 | 614 | 376996 |
| 9 | 609 | 370881 |
| 10 | 601 | 361201 |
| 11 | 582 | 338724 |
| 12 | 581 | 337561 |
| 13 | 580 | 336400 |
| 14 | 572 | 327184 |
| 15 | 569 | 323761 |
| 16 | 566 | 320356 |
| 17 | 563 | 316969 |
| 18 | 559 | 312481 |
| 19 | 552 | 304704 |
| 20 | 541 | 292681 |
| 21 | 526 | 276676 |
| 22 | 520 | 270400 |
| 23 | 510 | 260100 |
| 24 | 489 | 239121 |
| 25 | 483 | 233289 |
| 26 | 461 | 212521 |
| 27 | 457 | 208849 |
| 28 | 444 | 197136 |
| 29 | 378 | 142884 |
| 30 | 350 | 122500 |
| 31 | 347 | 120409 |
| 32 | 336 | 112896 |
| 33 | 332 | 110224 |
| 34 | 301 | 90601 |
| 35 | 290 | 84100 |
| 36 | 289 | 83521 |
| 37 | 284 | 80656 |
| 38 | 273 | 74529 |
| 39 | 273 | 74529 |
| 40 | 264 | 69696 |
| 41 | 232 | 53824 |
| 42 | 220 | 48400 |
| 43 | 203 | 41209 |
| 44 | 182 | 33124 |
| 45 | 165 | 27225 |
| 46 | 163 | 26569 |
| 47 | 154 | 23716 |
| 48 | 124 | 15376 |
| Total | 21043 | 10552671 |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Strata** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **Strata Total Toj** |
| **A** | 0 | 1 | 1 | 2 | 5 | 4 | 7 | 7 | 8 | 6 | **41** |
| **B** | 6 | 8 | 9 | 10 | 13 | 12 | 15 | 16 | 16 | 17 | **122** |
| **C** | 18 | 19 | 20 | 20 | 24 | 23 | 25 | 28 | 29 | 27 | **233** |
| **D** | 26 | 30 | 31 | 31 | 33 | 32 | 35 | 37 | 38 | 38 | **331** |
| **Sample Total (nȳio)** | 50 | 58 | 61 | 63 | 75 | 71 | 82 | 88 | 91 | 88 | **ΣTij = 727** |

Exp6

|  |  |  |  |
| --- | --- | --- | --- |
| Source Of Variation | d.f. | S.S. | M.S.S. |
| Between Strata | 4 -1 = 3 | 4828.275 |  |
| Within Strata | 40 – 1 = 36 | 485.5 |
| Total | 39 | 5313.775 |  |

Exp7

**Sample Units**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 320 | 455 | 334 | 325 | 328 |  |
|  | 340 | 417 | 331 | 358 | 383 |  |
|  | 398 | 420 | 340 | 430 | 383 |  |
|  | 360 | 358 | 370 | 358 | 375 |  |
|  | 350 | 400 | 375 | 378 | 308 |  |
|  | 372 | 355 | 320 | 395 | 400 |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 1st Class |  |  |  | 2nd Class |  |
|  | yi | yi2 |  |  | yi | yi2 |
| 320 | -40 | 1600 |  | 455 | 95 | 9025 |
| 340 | -20 | 400 |  | 417 | 57 | 3249 |
| 398 | 38 | 1444 |  | 420 | 60 | 3600 |
| 360 | 0 | 0 |  | 358 | -2 | 4 |
| 350 | -10 | 100 |  | 400 | 40 | 1600 |
| 372 | 12 | 144 |  | 355 | -5 | 25 |
| Total | -20 | 3688 |  | Total | 245 | 17503 |
|  |  |  |  |  |  |  |
|  | 3rd Class |  |  |  | 4th Class |  |
|  | yi | yi2 |  |  | yi | yi2 |
| 334 | -26 | 676 |  | 325 | -35 | 1225 |
| 331 | -29 | 841 |  | 358 | -2 | 4 |
| 340 | -20 | 400 |  | 430 | 70 | 4900 |
| 370 | 10 | 100 |  | 358 | -2 | 4 |
| 375 | 15 | 225 |  | 378 | 18 | 324 |
| 320 | -40 | 1600 |  | 395 | 35 | 1225 |
| Total | -90 | 3842 |  | Total | 84 | 7682 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 5th Class |  |  |  |  |  |
|  | yi | yi2 |  |  |  |  |
| 328 | -32 | 1024 |  |  |  |  |
| 383 | 23 | 529 |  |  |  |  |
| 383 | 23 | 529 |  |  |  |  |
| 375 | 15 | 225 |  |  |  |  |
| 308 | -52 | 2704 |  |  |  |  |
| 400 | 40 | 1600 |  |  |  |  |
| Total | 17 | 6611 |  |  |  |  |

Exp8

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **BLOCKS** |  |  |  |  |
|  |  | **I** | **II** | **III** | **IV** | **Total (Tio)** | **Square Of Total** |
| **A** | **y** | **8** | **8** | **6** | **8** | **30** | **900** |
|  | **y2** | **64** | **64** | **36** | **64** | **228** |
|  |  |  |  |  |  |  |
| **B** | **y** | **10** | **8** | **9** | **10** | **37** | **1369** |
|  | **y2** | **100** | **64** | **81** | **100** | **345** |
|  |  |  |  |  |  |  |
| **C** | **y** | **12** | **10** | **10** | **9** | **41** | **1681** |
|  | **y2** | **144** | **100** | **100** | **81** | **425** |
|  |  |  |  |  |  |  | |
| **Total (Toj)** | **30** | **26** | **25** | **27** |
| **Square Of Total** | **900** | **676** | **625** | **729** |

Exp11



