1. Are the different forms of consumer installment credit in the following table highly correlated? Create your table in Word. Response should be at least 75 words in length.

|  |  |  |  |
| --- | --- | --- | --- |
| Debt Outstanding (millions of dollars) | | | |
| Year | Gas Cards | Travel and Entertainment Cards | Bank Credit Cards | Retail Cards | Total Credit Cards | Total Installment Credit |
| 1 | $39 | $61 | $828 | $9,400 | $11,228 | $79,428 |
| 2 | 1,119 | 76 | 1,312 | 10,200 | 12,707 | 87,745 |
| 3 | 1,298 | 110 | 2,639 | 10,900 | 14,947 | 98,105 |
| 4 | 1,650 | 122 | 3,792 | 11,500 | 17,064 | 102,064 |
| 5 | 1,804 | 132 | 4,490 | 13,925 | 20,351 | 111,295 |
| 6 | 1,762 | 164 | 5,408 | 14,763 | 22,097 | 127,332 |
| 7 | 1,832 | 191 | 6,838 | 16,395 | 25,256 | 147,437 |
| 8 | 1,823 | 238 | 8,281 | 17,933 | 28,275 | 156,124 |
| 9 | 1,893 | 273 | 9,501 | 18,002 | 29,669 | 164,955 |
| 10 | 1,981 | 238 | 11,351 | 19,052 | 32,622 | 185,489 |
| 11 | 2,074 | 284 | 14,262 | 21,082 | 37,702 | 216,572 |

1. A researcher is asked to determine whether or not a productivity objective (in dollars) of better than $75,000 per employee is possible. A productivity test is done involving 20 employees. What conclusion would you reach? The sales results as follows: Your response must be 75 words in length.   
     
   a. 28,000   105,000 58,000 93,000 96,000  
   b. 67,000 82,500 75,000 81,000 59,000  
   c.101,000 60,500 77,000 72,500 48,000  
   d. 99,000 78,000 71,000 80,500 78,000

Interpret the following output examining group differences for purchase intentions. The three groups refer to consumers from three states: illinois, Louisiana, and Texas. Your response should be 200 words in length.

In 2-3 sentences, what assumptions can you make?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Tests of Between-Subject Effects | | | | |  |
|  | Dependent Variable: int2 | | | | |  |
| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |  |
| Corrected Model | 6681.746 | 2 | 3340.873 | 3.227 | 0.043 |  |
| Intercept | 308897.012 | 1 | 308897.012 | 298.323 | 0.000 |  |
| State | 6681.746 | 2 | 3340.873 | 3.227 | 0.043 |  |
| Error | 148068.543 | 143 | 1035.444 |  |  |  |
| Total | 459697.250 | 146 |  |  |  |  |
| Corrected Total | 154750.289 | 145 |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Law | | |  |  |  |
|  | Dependent Variable: int2 | | | 95% confidence interval | | |
|  | State | Mean | Std. Error | Lower Bound | Upper Bound |  |
|  | IL | 37.018 | 4.339 | 28.441 | 45.595 |  |
|  | LA | 50.357 | 4.965 | 40.542 | 60.172 |  |
|  | TX | 51.459 | 4.597 | 42.373 | 60.546 |  |