Exercise. On the example of a specific economic problem, to construct an econometric model of multiple regression, namely: on the basis of the statistical data set in the task to determine the type of statistical dependence between the factor and the resultant variables and to calculate the values of the parameters of the model, check the adequacy and statistical significance of the econometric model of multiple regression.

|  |  |  |  |
| --- | --- | --- | --- |
| №  | Expenses on food | General expenses | Family composition |
| 1 | 20 | 45 | 2 |
| 2 | 32 | 75 | 2 |
| 3 | 48 | 125 | 2 |
| 4 | 65 | 223 | 2 |
| 5 | 45 | 92 | 3 |
| 6 | 64 | 146 | 4 |
| 7 | 79 | 227 | 4 |
| 8 | 104 | 358 | 5 |
| 9 | 68 | 135 | 5 |
| 10 | 93 | 218 | 5 |
| 11 | 117 | 331 | 5 |
| 12 | 145 | 490 | 8 |
| 13  | 91 | 175 | 8 |
| 14 | 131 | 205 | 8 |
| 15 | 167 | 468 | 7 |
| 16 | 195 | 749 | 8 |