SHEET4

**Regression Analysis: Value of Target Variable versus Value of Predicting Variable**

**Method**

|  |  |
| --- | --- |
| Rows unused | 24 |

**Regression Equation**

|  |  |  |
| --- | --- | --- |
| Health expenditure (% of GDP) | = | 5.685 + 0.0597 GDP per capita (in thousands) |

**Coefficients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Coef** | **SE Coef** | **T-Value** | **P-Value** | **VIF** |
| Constant | 5.685 | 0.236 | 24.13 | 0.000 |  |
| Value of Predicting Variable | 0.0597 | 0.0103 | 5.82 | 0.000 | 1.00 |

**Model Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| **S** | **R-sq** | **R-sq(adj)** | **R-sq(pred)** |
| 2.52954 | 15.78% | 15.31% | 13.43% |

**Analysis of Variance**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **DF** | **Adj SS** | **Adj MS** | **F-Value** | **P-Value** |
| Regression | 1 | 216.92 | 216.924 | 33.90 | 0.000 |
| Value of Predicting Variable | 1 | 216.92 | 216.924 | 33.90 | 0.000 |
| Error | 181 | 1158.14 | 6.399 |  |  |
| Lack-of-Fit | 180 | 1146.62 | 6.370 | 0.55 | 0.820 |
| Pure Error | 1 | 11.52 | 11.520 |  |  |
| Total | 182 | 1375.07 |  |  |  |

**Fits and Diagnostics for Unusual Observations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **Value of Target Variable** | **Fit** | **Resid** | **Std Resid** |  |  |
| 1 | 13.200 | 5.715 | 7.485 | 2.97 | R |  |
| 7 | 11.300 | 5.960 | 5.340 | 2.12 | R |  |
| 8 | 9.900 | 8.955 | 0.945 | 0.38 |  | X |
| 24 | 2.200 | 7.541 | -5.341 | -2.12 | R |  |
| 47 | 10.000 | 9.281 | 0.719 | 0.29 |  | X |
| 76 | 8.600 | 10.063 | -1.463 | -0.60 |  | X |
| 81 | 6.700 | 10.566 | -3.866 | -1.59 |  | X |
| 95 | 11.300 | 5.754 | 5.546 | 2.20 | R |  |
| 104 | 16.300 | 5.929 | 10.371 | 4.11 | R |  |
| 108 | 11.400 | 5.899 | 5.501 | 2.18 | R |  |
| 123 | 10.500 | 10.187 | 0.313 | 0.13 |  | X |
| 126 | 15.200 | 6.615 | 8.585 | 3.40 | R |  |
| 134 | 2.900 | 9.392 | -6.492 | -2.62 | R | X |
| 151 | 4.400 | 9.537 | -5.137 | -2.08 | R | X |
| 162 | 11.300 | 10.771 | 0.529 | 0.22 |  | X |
| 177 | 16.800 | 9.563 | 7.237 | 2.93 | R | X |

*R  Large residual  
X  Unusual X*

