1. Using a scatter plot and **trendline/Rsquared:**
2. The sample regression equation is or
3. As Education increases by 1 unit (1 additional year of higher education), an individual’s annual salary (measured in thousands of dollars) is predicted to increase by 9.38, or by $9,380.
4. , or $88,510.
5. Using Data Analysis Tool: **Regression**
   1. Excel Output:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Regression Statistics* | | | |  | | | |  | | |  | | | | |  | | | | | |
| Multiple R | | | 0.5716 | |  | | | |  | | | |  | | | | |  | | | | | |
| R Square | | | 0.3267 | |  | | | |  | | | |  | | | | |  | | | | | |
| Adj. R Square | | | 0.2961 | |  | | | |  | | | |  | | | | |  | | | | | |
| Std. Error | | | 9.4696 | |  | | | |  | | | |  | | | | |  | | | | | |
| Observations | | | 24 | |  | | | |  | | | |  | | | | |  | | | | | |
| ANOVA | |  | |  | | |  | | | | |  | | |  | | | |  | | | | | | | |
|  | | *df* | | *SS* | | | *MS* | | | | | *F* | | | *Significance F* | | | | | |
| Regression | | 1 | | 957.19 | | | 957.19 | | | | | 10.67 | | | 0.0035 | | | | | |
| Residual | | 22 | | 1972.81 | | | 89.67 | | | | |  | | | | |  | | | | | |
| Total | | 23 | | 2930 | | |  | | | | |  | | |  | | | | | |
|  | |  | |  | | |  | | | | |  | | |  | | | |  | | | | | | | |
|  | | *Coefficients* | | *Standard Error* | | | *t Stat* | | | | | *P-value* | | | *Lower 95%* | | | | *Upper 95%* | | | | | | | |
| Intercept | 56.1772 | | | 5.2145 | | 10.7732 | | | | 3.06E‒10 | | | | 45.3630 | | | | | | 66.9914 | | | | |
| Age | | 0.2844 | | 0.0871 | | | 3.2671 | | | | | 0.0035 | | | 0.1039 | | | | 0.4650 | | | | | | |

The estimated model is or

* 1. When

When

When