1. Confidence interval of ; known
2. Confidence interval for ; unknown
3. Prediction interval of a future observation: known
4. Confidence interval for ; and known
5. Pooled Estimate of Variance
6. Confidence interval for ; but unknown
7. Confidence interval for ; and unknown
8. Confidence interval for for paired observations
9. Large-Sample confidence interval for
10. Large-Sample confidence interval for
11. Confidence interval for
12. ,
13. ,
14. Critical values of z

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of Test** | **α** | | | |
| **0.10** | **0.05** | **0.025** | **0.01** |
| **One-tailed** | ±1.28 | ±1.645 | ±1.96 | ±2.33 |
| **Two-tailed** | ±1.645 | ±1.96 | ±2.33 | ±2.575 |

1. Interpretations of *r*

|  |  |
| --- | --- |
| ±1.00 | perfect positive (negative) correlation |
| ±0.91 - ±0.99 | very high positive (negative) correlation |
| ±0.71 - ±0.90 | high positive (negative) correlation |
| ±0.51 - ±0.70 | moderate positive (negative) correlation |
| ±0.31 - ±0.50 | low positive (negative) correlation |
| ±0.01 - ±0.30 | negligible positive (negative) correlation |
| 0.00 | no correlation |

1. Error sum of squares:
2. An unbiased estimate of is
3. Mean Squared Error
4. Confidence interval for
5. Hypothesis testing on the slope
6. Statistical Inference on the Intercept
7. Confidence interval for