

## Lampiran 8. Uji Normalitas dan Uji t Sampel Berpasangan

### Uji Normalitas

**One-Sample Kolmogorov-Smirnov Test**

|                                  |                | Pe    | Po    | Se     | So     | Te     | To     |
|----------------------------------|----------------|-------|-------|--------|--------|--------|--------|
| N                                |                | 40    | 40    | 40     | 40     | 40     | 40     |
| Normal Parameters <sup>a,b</sup> | Mean           | 9.358 | 9.450 | 32.500 | 32.833 | 13.217 | 13.408 |
|                                  | Std. Deviation | .7295 | .8390 | 2.8784 | 3.3606 | 1.2347 | 1.2042 |
| Most Extreme Differences         | Absolute       | .214  | .277  | .132   | .122   | .092   | .113   |
|                                  | Positive       | .190  | .256  | .084   | .100   | .074   | .093   |
|                                  | Negative       | -.214 | -.277 | -.132  | -.122  | -.092  | -.113  |
| Kolmogorov-Smirnov Z             |                | 1.352 | .889  | .837   | .769   | .583   | .717   |
| Asymp. Sig. (2-tailed)           |                | .052  | .408  | .485   | .596   | .887   | .682   |

a. Test distribution is Normal.

b. Calculated from data.

**Tests of Normality**

|    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|----|---------------------------------|----|-------|--------------|----|------|
|    | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Pe | .137                            | 40 | .093  | .929         | 40 | .089 |
| Po | .128                            | 40 | .108  | .970         | 40 | .199 |
| Se | .132                            | 40 | .075  | .952         | 40 | .092 |
| So | .122                            | 40 | .140  | .951         | 40 | .080 |
| Te | .092                            | 40 | .200* | .953         | 40 | .098 |
| To | .113                            | 40 | .200* | .952         | 40 | .092 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

## T-Test

Paired Samples Statistics

|        |    | Mean   | N  | Std. Deviation | Std. Error Mean |
|--------|----|--------|----|----------------|-----------------|
| Pair 1 | Pe | 9.358  | 40 | .7295          | .1153           |
|        | Po | 9.450  | 40 | .8390          | .1327           |
| Pair 2 | Se | 32.500 | 40 | 2.8784         | .4551           |
|        | So | 32.833 | 40 | 3.3606         | .5314           |
| Pair 3 | Te | 13.217 | 40 | 1.2347         | .1952           |
|        | To | 13.408 | 40 | 1.2042         | .1904           |

Paired Samples Correlations

|        |         | N  | Correlation | Sig. |
|--------|---------|----|-------------|------|
| Pair 1 | Pe & Po | 40 | .805        | .000 |
| Pair 2 | Se & So | 40 | .919        | .000 |
| Pair 3 | Te & To | 40 | .932        | .000 |

Paired Samples Test

|        |         | Paired Differences |                |                    |                                                 |        | t      | df | Sig. (2-tailed) |
|--------|---------|--------------------|----------------|--------------------|-------------------------------------------------|--------|--------|----|-----------------|
|        |         | Mean               | Std. Deviation | Std. Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |        |        |    |                 |
|        |         |                    |                |                    | Lower                                           | Upper  |        |    |                 |
| Pair 1 | Pe - Po | -.0917             | .5006          | .0792              | -.2518                                          | .0684  | -1.158 | 39 | .254            |
| Pair 2 | Se - So | -.3333             | 1.3440         | .2125              | -.7632                                          | .0965  | -1.569 | 39 | .125            |
| Pair 3 | Te - To | -.1917             | .4522          | .0715              | -.3363                                          | -.0470 | -2.681 | 39 | .011            |

## T-Test

Paired Samples Statistics

|        |      | Mean | N  | Std. Deviation | Std. Error Mean |
|--------|------|------|----|----------------|-----------------|
| Pair 1 | Pe 1 | 9.10 | 40 | .928           | .147            |
|        | Po 1 | 9.55 | 40 | .815           | .129            |
| Pair 2 | Pe 2 | 9.50 | 40 | .877           | .139            |
|        | Po 2 | 9.53 | 40 | .847           | .134            |
| Pair 3 | Pe 3 | 9.48 | 40 | 1.132          | .179            |
|        | Po 3 | 9.28 | 40 | 1.450          | .229            |

Paired Samples Correlations

|        |             | N  | Correlation | Sig. |
|--------|-------------|----|-------------|------|
| Pair 1 | Pe 1 & Po 1 | 40 | .603        | .000 |
| Pair 2 | Pe 2 & Po 2 | 40 | .846        | .000 |
| Pair 3 | Pe 3 & Po 3 | 40 | .637        | .000 |

Paired Samples Test

|        |             | Paired Differences |                |                    |                                                 |       | t      | df | Sig. (2-tailed) |
|--------|-------------|--------------------|----------------|--------------------|-------------------------------------------------|-------|--------|----|-----------------|
|        |             | Mean               | Std. Deviation | Std. Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |       |        |    |                 |
|        |             |                    |                |                    | Lower                                           | Upper |        |    |                 |
| Pair 1 | Pe 1 - Po 1 | -.450              | .783           | .124               | -.700                                           | -.200 | -3.636 | 39 | .001            |
| Pair 2 | Pe 2 - Po 2 | -.025              | .480           | .076               | -.178                                           | .128  | -.330  | 39 | .743            |
| Pair 3 | Pe 3 - Po 3 | .200               | 1.137          | .180               | -.164                                           | .564  | 1.113  | 39 | .273            |

## T-Test

Paired Samples Statistics

|        |      | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|------|-------|----|----------------|-----------------|
| Pair 1 | Se 1 | 31.53 | 40 | 3.030          | .479            |
|        | So 1 | 32.45 | 40 | 3.658          | .578            |
| Pair 2 | Se 2 | 33.17 | 40 | 3.320          | .525            |
|        | So 2 | 32.70 | 40 | 4.398          | .695            |
| Pair 3 | Se 3 | 32.80 | 40 | 3.681          | .582            |
|        | So 3 | 33.35 | 40 | 3.247          | .513            |

Paired Samples Correlations

|        |             | N  | Correlation | Sig. |
|--------|-------------|----|-------------|------|
| Pair 1 | Se 1 & So 1 | 40 | .818        | .000 |
| Pair 2 | Se 2 & So 2 | 40 | .785        | .000 |
| Pair 3 | Se 3 & So 3 | 40 | .729        | .000 |

Paired Samples Test

|        |             | Paired Differences |                |                    |                                                 |       | t      | df | Sig. (2-tailed) |
|--------|-------------|--------------------|----------------|--------------------|-------------------------------------------------|-------|--------|----|-----------------|
|        |             | Mean               | Std. Deviation | Std. Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |       |        |    |                 |
|        |             |                    |                |                    | Lower                                           | Upper |        |    |                 |
| Pair 1 | Se 1 - So 1 | -.925              | 2.105          | .333               | -1.598                                          | -.252 | -2.779 | 39 | .008            |
| Pair 2 | Se 2 - So 2 | .475               | 2.727          | .431               | -.397                                           | 1.347 | 1.102  | 39 | .277            |
| Pair 3 | Se 3 - So 3 | -.550              | 2.581          | .408               | -1.376                                          | .276  | -1.347 | 39 | .186            |

## T-Test

Paired Samples Statistics

|        |      | Mean  | N  | Std. Deviation | Std. Error Mean |
|--------|------|-------|----|----------------|-----------------|
| Pair 1 | Te 1 | 12.83 | 40 | 1.299          | .205            |
|        | To 1 | 13.05 | 40 | 1.260          | .199            |
| Pair 2 | Te 2 | 13.23 | 40 | 1.527          | .241            |
|        | To 2 | 13.38 | 40 | 1.580          | .250            |
| Pair 3 | To 1 | 13.05 | 40 | 1.260          | .199            |
|        | To 3 | 13.80 | 40 | 1.436          | .227            |

Paired Samples Correlations

|        |             | N  | Correlation | Sig. |
|--------|-------------|----|-------------|------|
| Pair 1 | Te 1 & To 1 | 40 | .742        | .000 |
| Pair 2 | Te 2 & To 2 | 40 | .867        | .000 |
| Pair 3 | To 1 & To 3 | 40 | .403        | .010 |

Paired Samples Test

|        |             | Paired Differences |                |                    |                                                 |       | t      | df | Sig. (2-tailed) |
|--------|-------------|--------------------|----------------|--------------------|-------------------------------------------------|-------|--------|----|-----------------|
|        |             | Mean               | Std. Deviation | Std. Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |       |        |    |                 |
|        |             |                    |                |                    | Lower                                           | Upper |        |    |                 |
| Pair 1 | Te 1 - To 1 | -.225              | .920           | .145               | -.519                                           | .069  | -1.548 | 39 | .130            |
| Pair 2 | Te 2 - To 2 | -.150              | .802           | .127               | -.407                                           | .107  | -1.183 | 39 | .244            |
| Pair 3 | To 1 - To 3 | -.750              | 1.481          | .234               | -1.224                                          | -.276 | -3.204 | 39 | .003            |