

1. After executing descriptive statistics and the one-way ANOVA, highlight all the information.

| Microsoft Excel - Book | | | | | | | | | |
|---|----------------------|----------|--------------------|----------|----------|----------|----------|--|--|
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| Reply with Changes... Egd Review... | | | | | | | | | |
| Arial 10 1234567890 [Font Icons] % [Number Icons] [Text Icons] 100% | | | | | | | | | |
| A1 | group1 | | group2 | | | | | | |
| 1 | group1 | | group2 | | | | | | |
| 2 | | | | | | | | | |
| 3 | Mean | 4.571429 | Mean | 14.71429 | | | | | |
| 4 | Standard Error | 0.202031 | Standard Error | 1.189529 | | | | | |
| 5 | Median | 5 | Median | 15 | | | | | |
| 6 | Mode | 5 | Mode | 17 | | | | | |
| 7 | Standard Deviation | 0.634522 | Standard Deviation | 3.147183 | | | | | |
| 8 | Sample Variance | 0.285714 | Sample Variance | 9.904762 | | | | | |
| 9 | Kurtosis | -2.8 | Kurtosis | -1.31677 | | | | | |
| 10 | Skewness | -0.37417 | Skewness | -0.71034 | | | | | |
| 11 | Range | 1 | Range | 8 | | | | | |
| 12 | Minimum | 4 | Minimum | 10 | | | | | |
| 13 | Maximum | 5 | Maximum | 18 | | | | | |
| 14 | Sum | 32 | Sum | 103 | | | | | |
| 15 | Count | 7 | Count | 7 | | | | | |
| 16 | | | | | | | | | |
| 17 | Anova: Single Factor | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | SUMMARY | | | | | | | | |
| 20 | Groups | Count | Sum | Average | Variance | | | | |
| 21 | group1 | 6 | 27 | 4.5 | | | | | |
| 22 | group2 | 6 | 86 | 14.33333 | 10.66667 | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | ANOVA | | | | | | | | |
| 26 | Source of Variation | SS | df | MS | F | P-value | F crit | | |
| 27 | Between Groups | 290.0533 | 1 | 290.0533 | 52.90274 | 2.66E-05 | 4.964591 | | |
| 28 | Within Groups | 54.83333 | 10 | 5.483333 | | | | | |
| 29 | Total | 344.9167 | 11 | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 32 | | | | | | | | | |
| 33 | | | | | | | | | |
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| 43 | | | | | | | | | |
| 44 | | | | | | | | | |
| 45 | | | | | | | | | |
| 46 | | | | | | | | | |

2. Right click and select “Format Cells”.

| | A | B | C | D | E | F | G | H |
|----|----------------------|----------|------------|----------|----------|----------|------|---|
| 1 | group1 | group2 | | | | | | |
| 2 | | | | | | | | |
| 3 | Mean | 4.571429 | Mean | 14.71429 | | | | |
| 4 | Standard Error | 0.202031 | Standard E | 1.189523 | | | | |
| 5 | Median | 5 | Median | 16 | | | | |
| 6 | Mode | 5 | Mode | 17 | | | | |
| 7 | Standard Deviation | 0.534522 | Standard C | 3.147183 | | | | |
| 8 | Sample Variance | 0.285714 | Sample Va | 9.904762 | | | | |
| 9 | Kurtosis | -2.8 | Kurtosis | -1.31677 | | | | |
| 10 | Skewness | -0.37417 | Skewness | -0.71034 | | | | |
| 11 | Range | 1 | Range | 8 | | | | |
| 12 | Minimum | 4 | Minimum | 10 | | | | |
| 13 | Maximum | 5 | Maximum | 18 | | | | |
| 14 | Sum | 32 | Sum | 103 | | | | |
| 15 | Count | 7 | Count | 7 | | | | |
| 16 | | | | | | | | |
| 17 | Anova: Single Factor | | | | | | | |
| 18 | | | | | | | | |
| 19 | SUMMARY | | | | | | | |
| 20 | Groups | Count | Sum | Average | Variance | | | |
| 21 | group1 | 6 | 27 | 4.5 | 0.3 | | | |
| 22 | group2 | 6 | 86 | 14.33333 | 10.66667 | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | ANOVA | | | | | | | |
| 26 | Source of Variation | SS | df | MS | F | P-value | F | |
| 27 | Between Groups | 290.0833 | 1 | 290.0833 | 52.90274 | 2.68E-05 | 4.96 | |
| 28 | Within Groups | 54.83333 | 10 | 5.483333 | | | | |
| 29 | | | | | | | | |
| 30 | Total | 344.9167 | 11 | | | | | |

3. Select the “Number” format and change the number of decimal places to 4.

The screenshot shows an Excel spreadsheet with two columns of data, 'group1' and 'group2', and a 'Format Cells' dialog box open. The dialog box is set to the 'Number' category with 4 decimal places. The spreadsheet data is as follows:

| | A | B | C | D | E | F | G | H |
|----|----------------------|----------|------------|----------|---|---|---|---|
| 1 | group1 | group2 | | | | | | |
| 2 | | | | | | | | |
| 3 | Mean | 4.571429 | Mean | 14.71429 | | | | |
| 4 | Standard Error | 0.202031 | Standard E | 1.189523 | | | | |
| 5 | Median | 5 | Median | 16 | | | | |
| 6 | Mode | 5 | Mode | 17 | | | | |
| 7 | Standard Deviation | 0.534522 | Standard D | 3.147183 | | | | |
| 8 | Sample Variance | 0.285714 | Sample V | 9.904762 | | | | |
| 9 | Kurtosis | -2.8 | Kurtosis | -1.31677 | | | | |
| 10 | Skewness | -0.37417 | Skewness | -0.71034 | | | | |
| 11 | Range | 1 | Range | 8 | | | | |
| 12 | Minimum | 4 | Minimum | 10 | | | | |
| 13 | Maximum | | | | | | | |
| 14 | Sum | | | | | | | |
| 15 | Count | | | | | | | |
| 16 | | | | | | | | |
| 17 | Anova: Single Factor | | | | | | | |
| 18 | | | | | | | | |
| 19 | SUMMARY | | | | | | | |
| 20 | Groups | | | | | | | |
| 21 | group1 | | | | | | | |
| 22 | group2 | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | ANOVA | | | | | | | |
| 26 | Source of Variation | | | | | | | |
| 27 | Between Groups | 290 | | | | | | |
| 28 | Within Groups | 54 | | | | | | |
| 29 | | | | | | | | |
| 30 | Total | 344 | | | | | | |
| 31 | | | | | | | | |
| 32 | | | | | | | | |
| 33 | | | | | | | | |
| 34 | | | | | | | | |

The 'Format Cells' dialog box is open, showing the 'Number' category selected. The 'Decimal places' are set to 4. The 'Negative numbers' section shows three options: '-1234.3210', '1234.3210', and '(1234.3210)'. The 'OK' button is highlighted.

4. NOW – interpret your descriptive statistics and ANOVA.