

Difference of Proportion Calculator Help

The Difference of Proportion Calculator determines the probability that two percentages from separate samples are statistically different.

For example, a total sample size of 240 includes 140 boys and 100 girls. Survey results show that 70% of boys engage in after-school sports activities, and 50% of girls do. Use the calculator to determine the probability that boys are more likely to participate in after-school sports than girls.

In the example shown below, the number of boys (140) is entered in the first cell. The percentage of boys participating in sports (70%) is entered in the cell to the right as a decimal (.7).

The number of girls (100) and the corresponding percentage (50%) written as a decimal (.5) are entered in the "Group 2" cells.

Click on the "Submit" button:

The Results cell will generate text defining whether the compared populations' responses are not significant, approach significance, or are significant:

Note: The calculator refers to the difference as "Z". If the calculator reports the difference as "significant," it means that the difference has a 95% or greater chance of being real. If the calculator reports the difference as "approaching significance," it means that the difference has a 90% to 94% chance of being real.

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| | Number of respondents: | Percent (expressed as a decimal; i.e., 91.3% = .913) |
|----------|----------------------------------|--|
| Group 1: | <input type="text" value="140"/> | <input type="text" value=".70"/> |
| Group 2: | <input type="text" value="100"/> | <input type="text" value=".50"/> |

Results =

For a detailed walk-through to use the calculator, click [here](#) for an instructional web page, or click [here](#) to download instructions in PDF.

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To use the calculator for a new comparison, enter the new number of respondents and percentages of responses in the appropriate cells, and click the Submit button again.

Note: Javascript MUST be enabled for the calculator page to function properly.