

## Host

### Notes

|                |                |                                                                                                                                                                                                                       |
|----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:47                                                                                                                                                                                                  |
| Comments       |                |                                                                                                                                                                                                                       |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                              |
|                | Filter         | <none>                                                                                                                                                                                                                |
|                | Weight         | <none>                                                                                                                                                                                                                |
|                | Split File     | <none>                                                                                                                                                                                                                |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output" mkdir "D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output"']. |
| Resources      | Processor Time | 00:00:00.02                                                                                                                                                                                                           |
|                | Elapsed Time   | 00:00:00.23                                                                                                                                                                                                           |

## Host

## Notes

|                |                |                                                                                                                                                                                                                           |
|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                                                                                                      |
| Comments       |                |                                                                                                                                                                                                                           |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                                  |
|                | Filter         | <none>                                                                                                                                                                                                                    |
|                | Weight         | <none>                                                                                                                                                                                                                    |
|                | Split File     | <none>                                                                                                                                                                                                                    |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\png" mkdir "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\png"']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                                                                                                               |
|                | Elapsed Time   | 00:00:00.15                                                                                                                                                                                                               |

## Host

## Notes

|                |                |                                                                                                                                                                                                                                  |
|----------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                                                                                                             |
| Comments       |                |                                                                                                                                                                                                                                  |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                                         |
|                | Filter         | <none>                                                                                                                                                                                                                           |
|                | Weight         | <none>                                                                                                                                                                                                                           |
|                | Split File     | <none>                                                                                                                                                                                                                           |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\tables" mkdir "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\tables" ']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                                                                                                                      |
|                | Elapsed Time   | 00:00:00.10                                                                                                                                                                                                                      |

## Host

## Notes

|                |                |                                                                                                                                                                                                                           |
|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                                                                                                      |
| Comments       |                |                                                                                                                                                                                                                           |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                                  |
|                | Filter         | <none>                                                                                                                                                                                                                    |
|                | Weight         | <none>                                                                                                                                                                                                                    |
|                | Split File     | <none>                                                                                                                                                                                                                    |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\txt" mkdir "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\txt"']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                                                                                                               |
|                | Elapsed Time   | 00:00:00.10                                                                                                                                                                                                               |

## Host

## Notes

|                |                |                                                                                                                                                                                                                           |
|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                                                                                                      |
| Comments       |                |                                                                                                                                                                                                                           |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                                  |
|                | Filter         | <none>                                                                                                                                                                                                                    |
|                | Weight         | <none>                                                                                                                                                                                                                    |
|                | Split File     | <none>                                                                                                                                                                                                                    |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav" mkdir "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav"']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                                                                                                               |
|                | Elapsed Time   | 00:00:00.12                                                                                                                                                                                                               |

## Host

## Notes

|                |                |                                                                                                                                                                                                                           |
|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                                                                                                      |
| Comments       |                |                                                                                                                                                                                                                           |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                                  |
|                | Filter         | <none>                                                                                                                                                                                                                    |
|                | Weight         | <none>                                                                                                                                                                                                                    |
|                | Split File     | <none>                                                                                                                                                                                                                    |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\spv" mkdir "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\spv"']. |
| Resources      | Processor Time | 00:00:00.02                                                                                                                                                                                                               |
|                | Elapsed Time   | 00:00:00.09                                                                                                                                                                                                               |

## Host

## Notes

|                |                |                                                                                                                                                                                                                               |
|----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                                                                                                          |
| Comments       |                |                                                                                                                                                                                                                               |
| Input          | Active Dataset | DataSet0                                                                                                                                                                                                                      |
|                | Filter         | <none>                                                                                                                                                                                                                        |
|                | Weight         | <none>                                                                                                                                                                                                                        |
|                | Split File     | <none>                                                                                                                                                                                                                        |
| Syntax         |                | HOST COMMAND=['cmd /c if not exist "D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\pdf" mkdir "D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\pdf"']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                                                                                                                   |
|                | Elapsed Time   | 00:00:00.13                                                                                                                                                                                                                   |

## Host

## Notes

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|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:48                                                                                                                 |
| Comments       |                |                                                                                                                                      |
| Input          | Active Dataset | DataSet0                                                                                                                             |
|                | Filter         | <none>                                                                                                                               |
|                | Weight         | <none>                                                                                                                               |
|                | Split File     | <none>                                                                                                                               |
| Syntax         |                | HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output(png)*.png" 2>nul']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                          |
|                | Elapsed Time   | 00:00:00.11                                                                                                                          |

## Host

### Notes

|                |                |                                                                                                                                       |
|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:49                                                                                                                  |
| Comments       |                |                                                                                                                                       |
| Input          | Active Dataset | DataSet0                                                                                                                              |
|                | Filter         | <none>                                                                                                                                |
|                | Weight         | <none>                                                                                                                                |
|                | Split File     | <none>                                                                                                                                |
| Syntax         |                | HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\tables\*.csv" 2>nul']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                           |
|                | Elapsed Time   | 00:00:00.08                                                                                                                           |

## Host

### Notes

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|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:49                                                                                                               |
| Comments       |                |                                                                                                                                    |
| Input          | Active Dataset | DataSet0                                                                                                                           |
|                | Filter         | <none>                                                                                                                             |
|                | Weight         | <none>                                                                                                                             |
|                | Split File     | <none>                                                                                                                             |
| Syntax         |                | HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\txt\*.txt" 2>nul']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                        |
|                | Elapsed Time   | 00:00:00.10                                                                                                                        |

## Host

## Notes

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|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:49                                                                                                                                   |
| Comments       |                |                                                                                                                                                        |
| Input          | Active Dataset | DataSet0                                                                                                                                               |
|                | Filter         | <none>                                                                                                                                                 |
|                | Weight         | <none>                                                                                                                                                 |
|                | Split File     | <none>                                                                                                                                                 |
| Syntax         |                | HOST COMMAND=['cmd<br>/c del /q "D:\DATA<br>ANALYSIS\ Chi Square<br>and Categorical Data<br>Tests\Binomial<br>Test\SPSS_Output\sav\*.<br>sav" 2>nul']. |
| Resources      | Processor Time | 00:00:00.00                                                                                                                                            |
|                | Elapsed Time   | 00:00:00.10                                                                                                                                            |

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## Notes

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|----------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:49                                                                                                                                   |
| Comments       |                |                                                                                                                                                        |
| Input          | Active Dataset | DataSet0                                                                                                                                               |
|                | Filter         | <none>                                                                                                                                                 |
|                | Weight         | <none>                                                                                                                                                 |
|                | Split File     | <none>                                                                                                                                                 |
| Syntax         |                | HOST COMMAND=['cmd<br>/c del /q "D:\DATA<br>ANALYSIS\ Chi Square<br>and Categorical Data<br>Tests\Binomial<br>Test\SPSS_Output\spv\*.<br>spv" 2>nul']. |
| Resources      | Processor Time | 00:00:00.02                                                                                                                                            |
|                | Elapsed Time   | 00:00:00.18                                                                                                                                            |

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## Notes

|                |                |                                                                                                                                    |
|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                | 12-JUL-2026 19:53:49                                                                                                               |
| Comments       |                |                                                                                                                                    |
| Input          | Active Dataset | DataSet0                                                                                                                           |
|                | Filter         | <none>                                                                                                                             |
|                | Weight         | <none>                                                                                                                             |
|                | Split File     | <none>                                                                                                                             |
| Syntax         |                | HOST COMMAND=['cmd /c del /q "D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\pdf\*.pdf" 2>nul']. |
| Resources      | Processor Time | 00:00:00.03                                                                                                                        |
|                | Elapsed Time   | 00:00:00.20                                                                                                                        |

## Binomial Test

Binomial Test  
Import SPSS-ready binary data

## Binomial Test Descriptive Summary

Binomial Test Descriptive Summary  
Observed success and failure counts

## Frequencies

### Notes

|                        |                                |                                                                                                                          |
|------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Output Created         |                                | 12-JUL-2026 19:53:56                                                                                                     |
| Comments               |                                |                                                                                                                          |
| Input                  | Data                           | D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav\Binomial-Test-SPSS-Ready-Data.sav |
|                        | Active Dataset                 | BinomialTestData                                                                                                         |
|                        | Filter                         | <none>                                                                                                                   |
|                        | Weight                         | <none>                                                                                                                   |
|                        | Split File                     | <none>                                                                                                                   |
|                        | N of Rows in Working Data File | 649                                                                                                                      |
| Missing Value Handling | Definition of Missing          | User-defined missing values are treated as missing.                                                                      |
|                        | Cases Used                     | Statistics are based on all cases with valid data.                                                                       |
| Syntax                 |                                | FREQUENCIES<br>VARIABLES=binomial_success<br>/BARChart FREQ<br>/ORDER=ANALYSIS.                                          |
| Resources              | Processor Time                 | 00:00:01.92                                                                                                              |
|                        | Elapsed Time                   | 00:00:01.49                                                                                                              |

[BinomialTestData] D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS\_Output\sav\Binomial-Test-SPSS-Ready-Data.sav

### Statistics

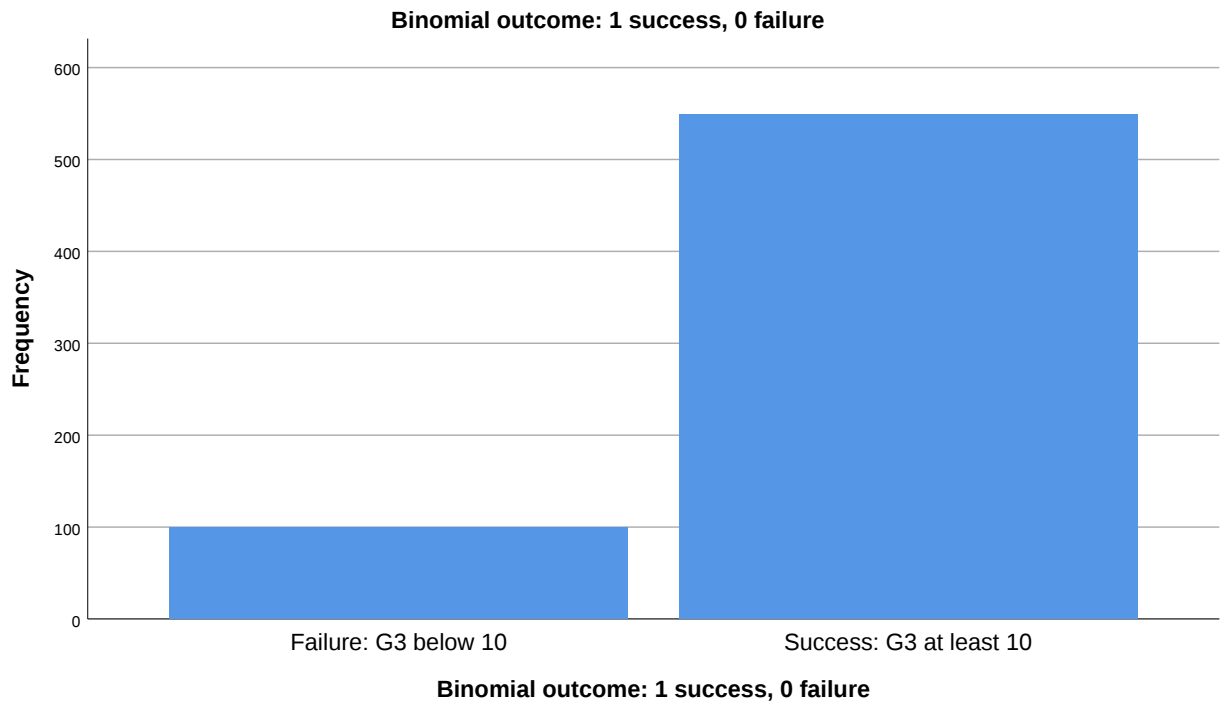
Binomial outcome: 1 success, 0 failure

|   |         |     |
|---|---------|-----|
| N | Valid   | 649 |
|   | Missing | 0   |

Binomial Test Descriptive Summary  
Observed success and failure counts

**Binomial outcome: 1 success, 0 failure**

|       |                         | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------------|-----------|---------|---------------|--------------------|
| Valid | Failure: G3 below 10    | 100       | 15.4    | 15.4          | 15.4               |
|       | Success: G3 at least 10 | 549       | 84.6    | 84.6          | 100.0              |
|       | Total                   | 649       | 100.0   | 100.0         |                    |



## Source Variable Distribution

Source Variable Distribution  
G3 distribution used to define pass and fail outcomes

## Frequencies

| Notes                  |                                |                                                                                                                                        |
|------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Output Created         |                                | 12-JUL-2026 19:53:57                                                                                                                   |
| Comments               |                                |                                                                                                                                        |
| Input                  | Data                           | D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav\Binomial-Test-SPSS-Ready-Data.sav               |
|                        | Active Dataset                 | BinomialTestData                                                                                                                       |
|                        | Filter                         | <none>                                                                                                                                 |
|                        | Weight                         | <none>                                                                                                                                 |
|                        | Split File                     | <none>                                                                                                                                 |
|                        | N of Rows in Working Data File | 649                                                                                                                                    |
| Missing Value Handling | Definition of Missing          | User-defined missing values are treated as missing.                                                                                    |
|                        | Cases Used                     | Statistics are based on all cases with valid data.                                                                                     |
| Syntax                 |                                | FREQUENCIES<br>VARIABLES=source_value<br>/HISTOGRAM NORMAL<br>/STATISTICS=MEAN<br>MEDIAN STDDEV<br>MINIMUM MAXIMUM<br>/ORDER=ANALYSIS. |
| Resources              | Processor Time                 | 00:00:00.44                                                                                                                            |
|                        | Elapsed Time                   | 00:00:00.40                                                                                                                            |

Source Variable Distribution  
G3 distribution used to define pass and fail outcomes

**Statistics**

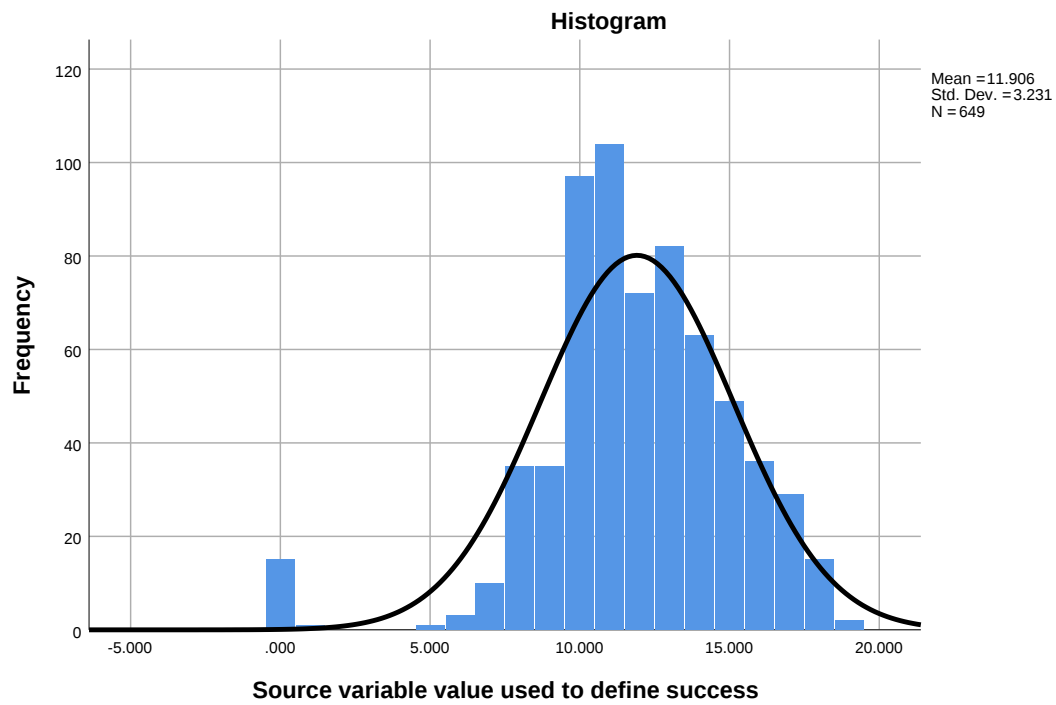
Source variable value used to define success

|                |         |          |
|----------------|---------|----------|
| N              | Valid   | 649      |
|                | Missing | 0        |
| Mean           |         | 11.90601 |
| Median         |         | 12.00000 |
| Std. Deviation |         | 3.230656 |
| Minimum        |         | .000     |
| Maximum        |         | 19.000   |

**Source variable value used to define success**

|       |        | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|--------|-----------|---------|---------------|--------------------|
| Valid | .000   | 15        | 2.3     | 2.3           | 2.3                |
|       | 1.000  | 1         | .2      | .2            | 2.5                |
|       | 5.000  | 1         | .2      | .2            | 2.6                |
|       | 6.000  | 3         | .5      | .5            | 3.1                |
|       | 7.000  | 10        | 1.5     | 1.5           | 4.6                |
|       | 8.000  | 35        | 5.4     | 5.4           | 10.0               |
|       | 9.000  | 35        | 5.4     | 5.4           | 15.4               |
|       | 10.000 | 97        | 14.9    | 14.9          | 30.4               |
|       | 11.000 | 104       | 16.0    | 16.0          | 46.4               |
|       | 12.000 | 72        | 11.1    | 11.1          | 57.5               |
|       | 13.000 | 82        | 12.6    | 12.6          | 70.1               |
|       | 14.000 | 63        | 9.7     | 9.7           | 79.8               |
|       | 15.000 | 49        | 7.6     | 7.6           | 87.4               |
|       | 16.000 | 36        | 5.5     | 5.5           | 92.9               |
|       | 17.000 | 29        | 4.5     | 4.5           | 97.4               |
|       | 18.000 | 15        | 2.3     | 2.3           | 99.7               |
|       | 19.000 | 2         | .3      | .3            | 100.0              |
|       | Total  | 649       | 100.0   | 100.0         |                    |

Source Variable Distribution  
G3 distribution used to define pass and fail outcomes



## Exact One-Sample Binomial Test

>Warning # 2004. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters  
>will be used.

Exact One-Sample Binomial Test  
H0: success proportion equals 0.50; success category equals

## Nonparametric Tests

### Notes

|                |                                |                                                                                                                                                                                                                                      |
|----------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Created |                                | 12-JUL-2026 19:54:02                                                                                                                                                                                                                 |
| Comments       |                                |                                                                                                                                                                                                                                      |
| Input          | Data                           | D:\DATA ANALYSIS\ Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav\Binomial-Test-SPSS-Ready-Data.sav                                                                                                              |
|                | Active Dataset                 | BinomialTestData                                                                                                                                                                                                                     |
|                | Filter                         | <none>                                                                                                                                                                                                                               |
|                | Weight                         | <none>                                                                                                                                                                                                                               |
|                | Split File                     | <none>                                                                                                                                                                                                                               |
|                | N of Rows in Working Data File | 649                                                                                                                                                                                                                                  |
| Syntax         |                                | NPTESTS<br>/ONESAMPLE TEST<br>(binomial_success)<br>BINOMIAL(<br>TESTVALUE=0.50<br><br>SUCCESSCATEGORICAL=LIST(1)<br>CLOPPERPEARSON<br>)<br>/MISSING<br>SCOPE=ANALYSIS<br>USERMISSING=EXCLUDE<br>/CRITERIA ALPHA=0.05<br>CILEVEL=95. |
| Resources      | Processor Time                 | 00:00:00.42                                                                                                                                                                                                                          |
|                | Elapsed Time                   | 00:00:00.46                                                                                                                                                                                                                          |

Exact One-Sample Binomial Test  
H0: success proportion equals 0.50; success category equals

### Hypothesis Test Summary

|   | Null Hypothesis                                                                                                                                               | Test                     | Sig. | Decision                    |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------|-----------------------------|
| 1 | The categories defined by Binomial outcome: 1 success, 0 failure = (Success: G3 at least 10) and (Failure: G3 below 10) occur with probabilities 0.5 and 0.5. | One-Sample Binomial Test | .000 | Reject the null hypothesis. |

Asymptotic significances are displayed. The significance level is .05.

## Binomial Outcome by School

### Crosstabs

#### Notes

|                        |                                |                                                                                                                                 |
|------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Output Created         |                                | 12-JUL-2026 19:54:02                                                                                                            |
| Comments               |                                |                                                                                                                                 |
| Input                  | Data                           | D:\DATA ANALYSIS\ Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav\Binomial-Test-SPSS-Ready-Data.sav         |
|                        | Active Dataset                 | BinomialTestData                                                                                                                |
|                        | Filter                         | <none>                                                                                                                          |
|                        | Weight                         | <none>                                                                                                                          |
|                        | Split File                     | <none>                                                                                                                          |
|                        | N of Rows in Working Data File | 649                                                                                                                             |
| Missing Value Handling | Definition of Missing          | User-defined missing values are treated as missing.                                                                             |
|                        | Cases Used                     | Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table. |
| Syntax                 |                                | CROSSTABS<br>/TABLES=school_id BY binomial_success<br>/FORMAT=AVALUE TABLES<br>/CELLS=COUNT ROW COLUMN<br>/COUNT ROUND CELL.    |
| Resources              | Processor Time                 | 00:00:00.02                                                                                                                     |
|                        | Elapsed Time                   | 00:00:00.02                                                                                                                     |
|                        | Dimensions Requested           | 2                                                                                                                               |
|                        | Cells Available                | 524245                                                                                                                          |

## Binomial Outcome by School

### Case Processing Summary

|                                                                                         | Valid |         | Cases Missing |         | Total |         |
|-----------------------------------------------------------------------------------------|-------|---------|---------------|---------|-------|---------|
|                                                                                         | N     | Percent | N             | Percent | N     | Percent |
| Numeric school code created by embedded Python * Binomial outcome: 1 success, 0 failure | 649   | 100.0%  | 0             | 0.0%    | 649   | 100.0%  |

### Numeric school code created by embedded Python \* Binomial outcome: 1 success, 0 failure Crosstabulation

|                                                |                                                         |                                                         | Binomial outcome: 1 success, 0 failure |                         |
|------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------------------------------|-------------------------|
|                                                |                                                         |                                                         | Failure: G3 below 10                   | Success: G3 at least 10 |
| Numeric school code created by embedded Python | 1                                                       | Count                                                   | 32                                     | 391                     |
|                                                |                                                         | % within Numeric school code created by embedded Python | 7.6%                                   | 92.4%                   |
|                                                |                                                         | % within Binomial outcome: 1 success, 0 failure         | 32.0%                                  | 71.2%                   |
|                                                | 2                                                       | Count                                                   | 68                                     | 158                     |
|                                                |                                                         | % within Numeric school code created by embedded Python | 30.1%                                  | 69.9%                   |
|                                                |                                                         | % within Binomial outcome: 1 success, 0 failure         | 68.0%                                  | 28.8%                   |
| Total                                          | Count                                                   |                                                         | 100                                    | 549                     |
|                                                | % within Numeric school code created by embedded Python |                                                         | 15.4%                                  | 84.6%                   |
|                                                | % within Binomial outcome: 1 success, 0 failure         |                                                         | 100.0%                                 | 100.0%                  |

## Binomial Outcome by School

**Numeric school code created by embedded Python \* Binomial outcome: 1 success, 0 failure Crosstabulation**

|                                                |                                                         |                                                         | Total  |
|------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|--------|
| Numeric school code created by embedded Python | 1                                                       | Count                                                   | 423    |
|                                                |                                                         | % within Numeric school code created by embedded Python | 100.0% |
|                                                |                                                         | % within Binomial outcome: 1 success, 0 failure         | 65.2%  |
|                                                | 2                                                       | Count                                                   | 226    |
|                                                |                                                         | % within Numeric school code created by embedded Python | 100.0% |
|                                                |                                                         | % within Binomial outcome: 1 success, 0 failure         | 34.8%  |
| Total                                          | Count                                                   |                                                         | 649    |
|                                                | % within Numeric school code created by embedded Python |                                                         | 100.0% |
|                                                | % within Binomial outcome: 1 success, 0 failure         |                                                         | 100.0% |

## Binomial Outcome by Sex

### Crosstabs

#### Notes

|                        |                                |                                                                                                                                 |
|------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Output Created         |                                | 12-JUL-2026 19:54:02                                                                                                            |
| Comments               |                                |                                                                                                                                 |
| Input                  | Data                           | D:\DATA ANALYSIS\ Chi Square and Categorical Data Tests\Binomial Test\SPSS_Output\sav\Binomial-Test-SPSS-Ready-Data.sav         |
|                        | Active Dataset                 | BinomialTestData                                                                                                                |
|                        | Filter                         | <none>                                                                                                                          |
|                        | Weight                         | <none>                                                                                                                          |
|                        | Split File                     | <none>                                                                                                                          |
|                        | N of Rows in Working Data File | 649                                                                                                                             |
| Missing Value Handling | Definition of Missing          | User-defined missing values are treated as missing.                                                                             |
|                        | Cases Used                     | Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table. |
| Syntax                 |                                | CROSSTABS<br>/TABLES=sex_id BY binomial_success<br>/FORMAT=AVALUE TABLES<br>/CELLS=COUNT ROW COLUMN<br>/COUNT ROUND CELL.       |
| Resources              | Processor Time                 | 00:00:00.03                                                                                                                     |
|                        | Elapsed Time                   | 00:00:00.02                                                                                                                     |
|                        | Dimensions Requested           | 2                                                                                                                               |
|                        | Cells Available                | 524245                                                                                                                          |

## Binomial Outcome by Sex

### Case Processing Summary

|                                                                                         | Valid |         | Cases Missing |         | Total |         |
|-----------------------------------------------------------------------------------------|-------|---------|---------------|---------|-------|---------|
|                                                                                         | N     | Percent | N             | Percent | N     | Percent |
| Numeric sex code created by embedded Python *<br>Binomial outcome: 1 success, 0 failure | 649   | 100.0%  | 0             | 0.0%    | 649   | 100.0%  |

### Numeric sex code created by embedded Python \* Binomial outcome: 1 success, 0 failure Crosstabulation

|                                             |                                                      |                                                      | Binomial outcome: 1 success, 0 failure |                         |
|---------------------------------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------|-------------------------|
|                                             |                                                      |                                                      | Failure: G3 below 10                   | Success: G3 at least 10 |
| Numeric sex code created by embedded Python | 1                                                    | Count                                                | 50                                     | 333                     |
|                                             |                                                      | % within Numeric sex code created by embedded Python | 13.1%                                  | 86.9%                   |
|                                             |                                                      | % within Binomial outcome: 1 success, 0 failure      | 50.0%                                  | 60.7%                   |
|                                             | 2                                                    | Count                                                | 50                                     | 216                     |
|                                             |                                                      | % within Numeric sex code created by embedded Python | 18.8%                                  | 81.2%                   |
|                                             |                                                      | % within Binomial outcome: 1 success, 0 failure      | 50.0%                                  | 39.3%                   |
| Total                                       | Count                                                |                                                      | 100                                    | 549                     |
|                                             | % within Numeric sex code created by embedded Python |                                                      | 15.4%                                  | 84.6%                   |
|                                             | % within Binomial outcome: 1 success, 0 failure      |                                                      | 100.0%                                 | 100.0%                  |

# Binomial Outcome by Sex

**Numeric sex code created by embedded Python \* Binomial outcome: 1 success, 0 failure Crosstabulation**

|                                             |                                                      |                                                      | Total  |
|---------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------|
| Numeric sex code created by embedded Python | 1                                                    | Count                                                | 383    |
|                                             |                                                      | % within Numeric sex code created by embedded Python | 100.0% |
|                                             |                                                      | % within Binomial outcome: 1 success, 0 failure      | 59.0%  |
|                                             | 2                                                    | Count                                                | 266    |
|                                             |                                                      | % within Numeric sex code created by embedded Python | 100.0% |
|                                             |                                                      | % within Binomial outcome: 1 success, 0 failure      | 41.0%  |
| Total                                       | Count                                                |                                                      | 649    |
|                                             | % within Numeric sex code created by embedded Python |                                                      | 100.0% |
|                                             | % within Binomial outcome: 1 success, 0 failure      |                                                      | 100.0% |