


For this quiz, we will investigate how characters in the Friday the 13<sup>th</sup> horror movies series died. The horror movie Wikipedia type webpage exists and this site was used to gather the information for this quiz.

The **Friday the 13th** franchise is a series of slasher films, usually following the storyline of **Jason Voorhees**, an undead serial killer who uses various weapons to kill teenagers under the spiritual direction of his dead mother **Pamela**. In his iconic form he wears a hockey mask, which he gained in the third film.

The franchise itself has expanded to include a television show, comic books, novels, and other tie-in merchandise.

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The two main killers: Pamela and Jason

Data Source

- Character Death Lists for various movies: [http://horror.wikia.com/wiki/Category:Death\\_Lists](http://horror.wikia.com/wiki/Category:Death_Lists)
- Character Death List for Friday the 13<sup>th</sup>: [http://horror.wikia.com/wiki/List\\_of\\_deaths\\_in\\_Friday\\_the\\_13th\\_series](http://horror.wikia.com/wiki/List_of_deaths_in_Friday_the_13th_series)

The following table presents the counts for how people in the Friday the 13<sup>th</sup> movies series have died, e.g. Blunt force trauma, shot, stabbed, etc. The hat provides the information necessary to compute the expected counts for each death category.

Observed Counts

Death Category	Count
Blunt force trauma	41
Exotic	19
Shot	4
Stabbed	90
Vital parts removed	22

Use the following hat to get expected counts

Shot 5%	Exotic: 12.5%	Vital parts removed: 12.5%	Blunt Force Trauma: 20%	Stabbed: 50%
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1. Complete the following analysis in Excel.

Investigation of Deaths for Friday the 13 <sup>th</sup> Movie Series																																																																														
Research Question	Does the method of killings that take place in the Friday the 13 <sup>th</sup> movie series differ from the percentages provided from the hat?																																																																													
Analysis in Excel	<p>On the following Excel schematic, show me exactly what you did in Excel to obtain the appropriate p-value for your analysis. You should include the observed data, the expected data, and the function used to obtain the p-value. (7 pts)</p> <table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>Category</td> <td>Observed</td> <td></td> <td>Percentages for Expected</td> <td>Expected Counts</td> </tr> <tr> <td>2</td> <td></td> <td>Blunt Force</td> <td>41</td> <td></td> <td>0.2</td> <td>0.20*176 = 35.2</td> </tr> <tr> <td>3</td> <td></td> <td>Exotic</td> <td>19</td> <td></td> <td>0.125</td> <td>0.125*176 = 22</td> </tr> <tr> <td>4</td> <td></td> <td>Shot</td> <td>4</td> <td></td> <td>0.05</td> <td>0.05*176 = 8.8</td> </tr> <tr> <td>5</td> <td></td> <td>Stabbed</td> <td>90</td> <td></td> <td>0.5</td> <td>0.50*176 = 88</td> </tr> <tr> <td>6</td> <td></td> <td>Vital part removed</td> <td>22</td> <td></td> <td>0.125</td> <td>0.125*176 = 22</td> </tr> <tr> <td>7</td> <td></td> <td></td> <td>176</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td colspan="2">P-Value : =CHITEST(C2:C6,F2:F6)</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td>0.402</td> <td></td> </tr> </tbody> </table> <p>What is the p-value from your test? P-Value = <u>0.402</u></p>		A	B	C	D	E	F	1		Category	Observed		Percentages for Expected	Expected Counts	2		Blunt Force	41		0.2	0.20*176 = 35.2	3		Exotic	19		0.125	0.125*176 = 22	4		Shot	4		0.05	0.05*176 = 8.8	5		Stabbed	90		0.5	0.50*176 = 88	6		Vital part removed	22		0.125	0.125*176 = 22	7			176				8							9					P-Value : =CHITEST(C2:C6,F2:F6)		10					0.402	
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Decision	<p>Make the appropriate statistical decision. Circle the correct decision. (2 pts)</p> <p><u>Decision:</u> If the p-value &lt; 0.05, then data is said to support the research question.</p> <ul style="list-style-type: none"> <li><input type="radio"/> Data supports research question</li> <li><input checked="" type="radio"/> Data does not support research question</li> </ul>																																																																													
Conclusion	<p>Write an appropriate conclusion in laymen's terms and in context. (5 pts)</p> <p>There is not enough statistical evidence to say that the method of killings that take place in the Friday the 13<sup>th</sup> movie series differ from the percentages provided (p-value = 0.402).</p>																																																																													

2. Answer the following True/False questions regarding your analysis. (2 pts)

a. There are several other horror films listed on this website. The conclusion above applies to these other movies. That is, the other movies are within our scope-of-inference.	TRUE	<input checked="" type="radio"/> FALSE
b. A different conclusion will change my scope-of-inference. That is, if the conclusion of this test were different, then the scope-of-inference would change as well.	TRUE	<input checked="" type="radio"/> FALSE
c. Suppose instead of just collecting data from the Friday the 13 <sup>th</sup> movie series, I had randomly collected data from lots of different horror movies listed on this site. Doing this would allow me to expand my scope-of-inference to all horror movies listed on this site.	<input checked="" type="radio"/> TRUE	FALSE