Welcome to the Hypothesis Testing calculator made by ALIAS GEORGE

Select the Calculator (type the no corresponding eg 1 for one mean Large sample)

- 1. One Mean Large sample
- 2. One Mean Small sample
- 3. Two Mean Large sample
- 4. Two Mean Small sample with both normal and $\sigma 1 = \sigma 1$
- 5. One Variance Test
- 6. Two Variance Test
- 7. Matched Pair Test
- 8. One Proportion Test
- 9. Multi Proportion t-Test
- 10. Two Proportion Difference Test
- 11. R and C Analysis Test
- 12. Goodness Fit Test

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Select the Calculator

Discrete Distribution

- 1. Goodness Fit for Poisson Test
- 2. Goodness Fit for Binomial Test
- 3. Goodness Fit for Geometric Test
- 4. Goodness Fit for Hyper Geometric Test
- 5. Goodness Fit for Uniform Discrete Test

Continuous Distribution

- 6. Goodness Fit for Normal Test
- 7. Goodness Fit for Log Normal Test
- 8. Goodness Fit for Alpha Test
- 9. Goodness Fit for Beta Test
- 10. Goodness Fit for Gamma Test
- 11. Goodness Fit for Weibull Test
- 12. Goodness Fit for Exponential Test
- 13. Goodness Fit for Uniform Continuous Test 1

Level of significance: 0.05

Enter the λ : 4.6

Enter the no of Categories: 14

Does the random variable values is in the order 0,1,3,....,12,13

- 1. yes
- 2. no

```
Enter the Observed Frequency for 0 3
Enter the Observed Frequency for 1 15
Enter the Observed Frequency for 2 47
Enter the Observed Frequency for 3 76
Enter the Observed Frequency for 4 68
Enter the Observed Frequency for 5 74
Enter the Observed Frequency for 6 46
Enter the Observed Frequency for 7 39
Enter the Observed Frequency for 8 15
Enter the Observed Frequency for 9 9
Enter the Observed Frequency for 10 5
Enter the Observed Frequency for 11 2
Enter the Observed Frequency for 12 0
Enter the Observed Frequency for 12 0
```

_	L				L	_
	X	l	Observed Frequency	Poisson Probabilities	Expected Frequency	
	0		3	0.01	4.0	
	1		15	0.046	18.4	
	2		47	0.106	42.4	
	3		76	0.163	65.2	

4		68	0.188	75.2	1
5		74	0.173	69.1	
6		46	0.132	52.8	
7		39	0.087	34.8	
8		15	0.05	20.0	
9		9	0.026	10.4	
1	0	5	0.012	4.8	
1	1	2	0.005	2.0	
1	2	0	0.002	0.8	
1	3	1	0.001	0.4	

Combined categories (initial, final) [(0, 1), (10, 13)]

_	L	L	
	Observed Frequency	Poisson Probabilities	Expected Frequency
	18	0.056	22.4
	47	0.106	42.4
	76	0.163	65.2
	68	0.188	75.2
	74	0.173	69.1
	46	0.132	52.8
	39	0.087	34.8
	15	0.05	20.0

9	0.026	10.4	
8	0.02000000000000004	8.0	

Calculations

Total Chi_square: 7.01024417983987

Decision

The null must be rejected if χ^2 < 16.919

Failure to reject Null 'Data fit to the distribution'

Process finished with exit code 0