

GOODNESS OF FIT

How to tell it's Goodness of Fit

Hypotheses

H_0

H_1

Math Time!

Expected Counts

Test
Statistic

Degrees of Freedom

P-value

Decision and Interpretation

Rejecting Null
()

Failing to Reject Null
()

Calculator Trick
(χ^2 GOF-Test)

How do you get there?	
What do you need for it?	
What do you get from it?	

TEST OF INDEPENDENCE & TEST OF HOMOGENEITY

How to tell it's...	
Test of Independence	Test of Homogeneity

Hypotheses			
Test of Independence		Test of Homogeneity	
H_0		H_0	
H_1		H_1	



Math Time!	
Find Row/Column Totals & Overall Total	*Note: Overall total is found by adding row totals OR column totals
Expected Counts	
Test Statistic	

Degrees of Freedom	
P-value	



Decision and Interpretation		
Rejecting Null ()	TOI	
	TOH	
Failing to Reject Null ()	TOI	
	TOH	

Calculator Trick	
Part 1: The Matrix	
How do you get there?	
What do you need for it?	
Part 2: χ^2 -Test	
How do you get there?	
What do you need for it?	
What do you get from it?	

ANOVA

How to tell it's ANOVA

Hypotheses			
H_0		H_1	



Math Time!		
	Between	Within
Sum of Squares		
Degrees of Freedom		
Mean of Squares		
Test Statistic		
P-value		



Decision and Interpretation	
Rejecting Null ()	

Failing to Reject Null ()	
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Calculator Trick (ANOVA)	
How do you get there?	
What do you need for it?	
What do you get from it?	

POST-HOC

How to tell it's Post-Hoc
*Note: Only use when you _____ on ANOVA!

Hypotheses			
H_0		H_1	



Decision and Interpretation for Each Comparison	
Rejecting Null ()	
Failing to Reject Null ()	



Interpretation Overall