

CHI SQUARE TEST

The chi square Test for Goodness of fit test claims about population proportions.

It is a non parametric test that is performed on categorical [ordinal and nominal] data.

There is a population of male who likes different color bikes

	<u>Theory</u>	<u>Sample</u>	(*) Goodness of fit test
Yellow Bike	$\frac{1}{3}$	22	
Red Bike	$\frac{1}{3}$	17	
Orange Bike	$\frac{1}{3}$	59	
	↓	→ Observed categorical distribution	
	Theory categorical distribution		

Goodness of fit test

In a science class of 75 students, 11 are left handed. Does this class fit the theory that 12% of people are left handed.

$$3 \frac{12}{100} \times 75^3 = 9$$

Ans)

	O	E
left handed	11	9
Right handed	$\frac{64}{75}$	$\frac{66}{75}$