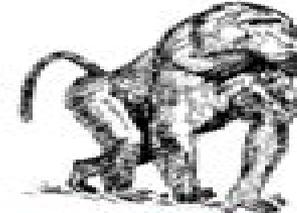


Chi Square Practice Problems

Solve all problems using a chi-square analysis. You must use statistics to support your answers.

1. A zookeeper hypothesizes that changing the intensity of the light in the primate exhibits will reduce the amount of aggression between the baboons. In exhibit A, with a lower light intensity, he observes 36 incidences of aggression over a one month period. In exhibit B, with normal lights, he observes 42 incidences of aggression. Should he support or reject his hypothesis?



The null hypothesis is that we would expect no difference in number of acts of aggression when comparing low light to normal light. There were 78 total acts of aggression. So we would expect 39 acts to occur in each of the 2 rooms (78/2).

Observed	Expected	$(o-e)^2/e$
36	39	.23
42	39	.23

$$\chi^2 = .46$$

Degrees of freedom = 1

Critical value = 3.84

Because .46 is below 3.84, we can accept the null hypothesis. (Which proves the zookeeper's hypothesis as incorrect.)

2. A high school, students can choose to enter one of three doors. Custodians noticed that door #3 was always getting broken and suggested that more students use that door because it has a hands-free opener. Science minded students counted the number of students entering each door to see if the custodians were right.

Door #1 had 60 students enter | Door #2 had 66 students enter | Door #3 had 80 students enter.

Were the custodians right?

The null hypothesis is that we would expect no difference in which door is preferred by students. The doors were opened 206 times total. $206/3 = 68.67$.

Observed	Expected	$(o-e)^2/e$
60	69	1.17
66	69	0.13
80	69	1.75

$$\chi^2 = 3.05$$

Degrees of freedom = 2

Critical value = 5.99

Because 3.05 is below 5.99, we can accept the null hypothesis. The students do not prefer any door.

Chi Square Practice Problems With Answers

CL Gary



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