

How do I perform a chi square test for homogeneity?


$$
\begin{aligned}
.1 & =-1.29 \\
& -1.29=\frac{x-76}{8}
\end{aligned}
$$

$$
\begin{aligned}
& n_{1}=40 \\
& n_{2}=40 \quad p_{1}=. \\
& p_{2}=5 \\
& 12+20=3 \\
& \sqrt{\sum n p(1-p)} \\
& \sqrt{40(3)(.7)+40)(5)(\cdot 5)}
\end{aligned}
$$


normldf (375,

$$
375,99^{91}, 350,171
$$

$\lambda^{2}$ for homogeneity comparative experiment
Ho: There is no difference in distribution of response for patients w/ moderately severe cases of depression when taking st forms Writ,
zoloft, or Placebo. $H_{a}$ : There is a diff......
check Conditions. Random $\sqrt{2}$
Large Sample Size -
All expected counts $\rightarrow$ (3/23) are greater than.
Independena - Knowing response of sore subject will not affect the other subjects' responses.
two-w day table $x^{2}$ for homogeneity:

$$
\begin{aligned}
& d f=(\text { rows }-1)(\text { column }-1) \\
& d f=(3-1)(3-1)=4 \\
& \text { calc: } \lambda^{2} c d f(8.72,1000,4) \\
& P-v \text { clue }=0.0685
\end{aligned}
$$



Interpret the p-value in the he context of the problem.

Assuming that the treatments are equally effective, the probability of observing a difference in the distribution of responses among the three treatment groups as large or larger than the one in the study is approximately 0.0685 .

1- When do you use a $x^{2}$ for homo gereity?
2. List 3 conditions.

