

Exercise

```
> #1.  
> # H0: Customers choose all four snack types (A, B, C, D) equally.  
> # That is,  $p_A = p_B = p_C = p_D = 0.25$   
> # H1: Customers do not choose all four snack types equally.  
>  
> #2.  
> observed <- c(120, 95, 85, 100) #observed frequencies  
>  
> chisq_test <- chisq.test(observed, p = rep(1/4, 4))  
> chisq_test
```

Chi-squared test for given probabilities

```
data: observed  
X-squared = 6.5, df = 3, p-value = 0.08966
```

```
>  
> #3.  
> #Significance level: 0.05  
> #p-value = 0.08966 > 0.05  
> #Fail to reject  $H_0$ .
```

---