U1U2Chpt

U1-13:
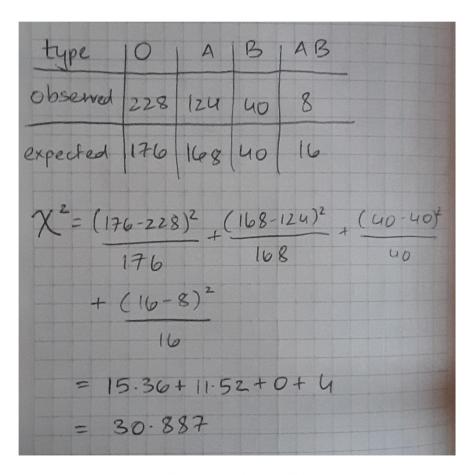

Figure 1: Calculate Chi

```
# We see that this is the same as the value from the slides
(1 - pchisq(30.8874, df=3))
```

```
## [1] 8.977405e-07
```

U2-9:

Degrees of freedom = (no. of rows - 1) × (no. of columns - 1) = $2 \times 1 = 2$

$\chi^2 = \frac{(332.49-400)^2}{332.49} + \frac{(1447.51-1380)^2}{1447.51} + \frac{(418.22-416)^2}{418.22} + \frac{(1820.78-1823)^2}{1820.78} + \frac{(253.29-188)^2}{253.39} + \frac{(1102.71-1168)^2}{1102.71}$

$\chi^2 = 37.559$