

|        | Attend     | Not        |     |
|--------|------------|------------|-----|
| Male   | 33<br>27.5 | 17<br>27.5 | 50  |
| Female | 12<br>27.5 | 38<br>27.5 | 50  |
|        | 45         | 55         | 100 |

$$\chi^2 = \sum \frac{(O-E)^2}{E}$$

$$E = \frac{R}{T} \cdot C$$

$$\frac{1}{2} \cdot 45 \quad \frac{1}{2} \cdot 55$$

$$\chi^2 = \frac{(33-27.5)^2}{27.5} + \frac{(17-27.5)^2}{27.5} + \frac{(12-27.5)^2}{27.5} + \frac{(38-27.5)^2}{27.5}$$

$$\chi^2 = 17.82 \quad df = (N_r - 1)(N_c - 1)$$

$$df = 1$$

$$\chi^2(1, N=100) = 17.82, p < .05, \phi =$$

$$\phi = \sqrt{\frac{\chi^2}{N \cdot df_{smaller}}} = \sqrt{\frac{17.82}{100 \cdot 1}} = .422$$

