a) Observed Frequency

Preferred	lower	Middle	Top	Total
FOR	67	32	11	110
AGAINST	63	18	9	90
Total	130	50	20	200

expected Frequency

$$E = \frac{RT \times CT}{n\text{Total}}$$

	Lower	middle	top	Total
For	71.5	28.5	11	110
Against	58.5	21.5	9	90
Total	130	50	20	200

b) Observed & the expected frequency

O	E	(O-E)/E (2dp)
67	71.5	0.28
32	28.5	0.79
11	11	0
63	58.5	0.35
12	21.5	0.900
7	9	0
Total 200	200	$\chi^2 = 2.27$

5% = 0.05

r = (R-1)(C-1) df

(2-1)(3-1) df

(1)(2)

= 2

5.991

If calculated $\chi^2 > 5.991$ reject H_0

If calculated $\chi^2 < 5.991$ accept H_0

H_0 - the companies employee are ~~are~~ homogenous with respect to the opinion thay propose

H_1 - The companies employee are not homogenous with respect to the opinion thay propose

c. conclusion

Since $x^2 = 2.27 < 5.99$, we accept H_0 which means employee are homogenous