Tut 5

Q1 c: pr(have drive lic | male) = p_2
pr(have drive lic | female) = p_1

{(1) $p_1 - p_2$ ←
(2) p_1 / p_2 ←}

→ (3) OR ⇒ 1.157 → CI ⇒ covers value 1 ⇒ the real OR could be 1 ⇒ 2 variables could be indpd.

→ (4) Chi square test.

⇓

H_0: 2 variables are indpd ←

H_1: _____ associated

Test statistic: $X^2 = 0.138 \sim \chi^2_1$ under H_0.

χ^2_1 null distn of test statistic

→ p-value = 0.7 → large p-value
→ not enough evidence against H_0.

Q2. OR = 1.195 ←

	CVD	non CVD
obese	22	1179
Non-obese	22	1409

OR =

→ the odds of CVD among obese is 1.195 times the odds of CVD among non-obese.