

EXERCISE 2

⑥

$N = 35$

$r_{xy} = 0.67$

$$t = \frac{|r_{xy}|}{\sqrt{\frac{1 - r_{xy}^2}{N - 2}}} = \frac{0.67}{\sqrt{\frac{1 - 0.45}{35 - 2}}} = \frac{0.67}{\sqrt{\frac{0.55}{33}}} = \frac{0.67}{\sqrt{0.017}} = \frac{0.67}{0.13} = 5.15$$

$$t = 5.15 > t(\alpha, N - 2) = t(0.05, 33) \approx 2.042$$

— ~~NO~~⑦ $r_{xy}^2 = 0.45 \rightarrow$ Medium/high effect size⑧ High effect size and significant effect \rightarrow The effect probably exists

(10)

$$\chi^2 = \frac{(|A-D|-1)^2}{A+D} = \frac{(|9-10|-1)^2}{9+10} = 0$$

Re

	$\sqrt{\text{test}}$	μ
M	9 A	5
V	2	10 D

$$\chi^2(0.05, 1) = 3.84$$

$$0 < 3.84 \quad \text{--- (10)}$$