

THE HONG KONG POLYTECHNIC UNIVERSITY
HONG KONG COMMUNITY COLLEGE

Subject Title : Statistics and Research Methods in Psychology **Subject Code** : CCN3110

Session : Semester One, 2018/19

Numerical Answers

Question B2

(b) $MS_{error} = 360 \div 12 = 30$
 $MS_{treatment} = 2280 \div 2 = 1140$
 $F_{obs} = \frac{1140}{30} = 38$
 $F_{crit} = 3.89$

Question C1

(d) $Odds\ ratio = \frac{0.5}{2.4286} = 0.2059$ (or 4.8572)

Question C2

(d) $\eta^2 = \frac{80902.792}{619006.979} = 0.1307$

Question C5

(d) $Cohen's\ d = \frac{1335.75 - 1286.9583}{113.2945} = 0.4307$

$$r^2 = \frac{1.492^2}{1.492^2 + 36.438} = 0.0576$$