

Be sure to click "GRADE" before exiting the on-line Exam

## Tables & Formulas for Psyc941 Quiz 2

### Power, Effect Size & Sample Size\*

r ? ? power	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70
.20	124	32	21	15	14	13	11	9	7	5			
.30	208	93	53	34	24	18	14	11	9	8	7	6	5
.40	296	132	74	47	33	24	19	15	12	10	8	7	6
.50	382	170	95	60	42	30	23	18	14	12	9	8	7
.60	488	257	143	90	62	45	34	24	20	16	13	11	9
.70	613	300	167	105	72	52	39	29	23	28	15	12	10
.80	781	343	191	120	82	59	44	33	26	20	16	13	11
.90	1045	459	255	160	109	78	58	44	34	27	21	17	13

\* "S" values given for  $\alpha = .05$   
1988), with some interpolation.

Values taken from (Friedman, 1982 & Cohen,

Calculating **S** to use the power table

- Correlation  $S = df + 2$
- BG ANOVA  $S = df_{error} + 2$
- WG ANOVA  $S = df_{error} + 1$
- $X^2$   $S = \text{sum of cell frequencies}$

$$r = \sqrt{F / (F + df_{error})}$$

$$r = \sqrt{X^2 / N}$$

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