

APPENDIX 1

Reliability of the try out test

No	Student's Code	Odd (X)	Even (Y)	X2	Y2	XY
1	A	11	10	121	100	110
2	B	10	10	100	100	100
3	C	10	8	100	64	80
4	D	9	9	81	81	81
5	E	6	11	36	121	66
6	F	8	9	64	81	72
7	G	8	8	64	64	64
8	H	8	8	64	64	64
9	I	8	7	64	49	56
10	J	6	9	36	81	54
11	K	7	8	49	64	56
12	L	8	7	64	49	56
13	M	9	5	81	25	45
14	N	8	6	64	36	48
15	O	7	7	49	49	49
16	P	5	9	25	81	45
17	Q	7	6	49	36	42
18	R	7	5	49	25	35
19	S	5	7	25	49	35
20	T	7	5	49	25	35
21	U	4	7	16	49	28
22	V	6	4	36	16	24
23	W	5	5	25	25	25
24	X	4	5	16	25	20
25	Y	4	5	16	25	20
26	Z	6	3	36	9	18
27	AA	4	4	16	16	16
28	BB	4	4	16	16	16
29	CC	3	5	9	25	15
30	DD	4	3	16	9	12
31	EE	4	3	16	9	12
32	FF	3	3	9	9	9
Total		250	250	1461	1477	1408

APPENDIX 2

The Reliability of the half test

Pearson Product Moment;

$$\begin{aligned} r_1 &= \frac{N(\sum xy) - (\sum X)(\sum Y)}{\sqrt{(\sum x^2) - (\sum X)^2} \sqrt{(\sum y^2) - (\sum Y)^2}} \\ &= \frac{1408}{\sqrt{(1461)(1477)}} \\ &= \frac{1408}{\sqrt{(2157897)}} \\ &= \frac{1408}{\sqrt{1468.9}} \\ &= \frac{1408}{1468.9} = 0.95 \end{aligned}$$

The reability of the whole test

Spearman Brown's Prophecy Formula :

$$\begin{aligned} r_k &= \frac{2r_{xy}}{1 + r_{xy}} \\ &= \frac{2(0.95)}{1+0.95} = \frac{1.9}{1.95} = 0.97 \end{aligned}$$