

A P P E N D I X A

1. DATA DERIVED FROM THE PILOT STUDY

(I to IV TABLES OF PILOT STUDY)

TABLE 1

Showing the Range, Mean and S.D. of
the Interest Scores (Pilot Study)

Interest	Range	Mean	S.D.
Fine Arts	13 - 98	48.56	17.3
Technical	26 - 94	60.5	15.3
Commerce	27 - 91	51.1	13.3
Agriculture	28 - 100	52.94	16.5
Humanities	32 - 92	55.06	12.6
Science	22 - 111	56.33	16.9

TABLE 2 (a)

Showing the Chi-Square Values of the Items
of the Sub-Test No. 1

Item No.	INTERESTS					
	Fine Arts	Techni- cal	Commerce	Agricul- ture	Humani- ties	Science
1	85.08	32.52	33.97	40.96	41.48	16.96
2	97.67	4.35	7.81	28.44	30.42	35.84
3	60.45	28.44	22.74	43.36	43.19	25.98
4	20.37	12.74	22.80	21.78	21.46	12.00
5	54.13	13.01	25.99	69.53	47.69	60.45
6	28.19	36.82	23.32	22.12	1.12*	20.16
7	73.94	46.16	81.28	61.73	36.16	33.66
8	27.14	11.38	47.00	23.80	7.00	32.19
9	95.35	39.82	21.77	56.17	56.44	23.52
10	46.41	65.33	34.61	37.89	3.90	32.69
11	59.40	89.91	11.20	99.69	6.82	54.41
12	114.06	94.08	41.33	95.38	88.00	57.64
13	64.80	70.34	81.28	65.96	19.44	37.84
14	97.67	70.09	85.41	66.71	43.81	56.71
15	43.97	37.25	51.31	32.47	5.13	29.45
16	11.20	34.85	61.19	19.44	11.5	23.93
17	11.72	53.69	64.44	64.44	21.83	73.60
18	1.76*	34.30	3.00*	46.83	27.87	49.00
19	10.67	93.31	35.82	56.17	31.98	46.83
20	85.41	71.34	69.44	31.13	91.55	46.58

* marked items having values below the level of significance.

Chi-square values at .05 level - 3.84

Chi-square values at .01 level - 6.63

TABLE 2 (b)
 Showing the Chi-Square Values of
 the Items of the Sub-Test No. 2

Item No.	Interest	Chi-square values
1	(a) Fine Arts	12.19
	(b) Technical	6.65
2	(a) Humanities	3.27*
	(b) Science	9.99
3	(a) Technical	1.30*
	(b) Humanities	19.01
4	(a) Fine Arts	11.71
	(b) Commerce	15.50
5	(a) Agriculture	1.03*
	(b) Science	5.14
6	(a) Technical	10.06
	(b) Fine Arts	25.66
7	(a) Fine Arts	8.65
	(b) Agriculture	29.11
8	(a) Agriculture	9.82
	(b) Humanities	16.07
9	(a) Fine Arts	10.34
	(b) Humanities	7.36

Item No.	Interest	Chi-square values
10	(a) Commerce	9.01
	(b) Science	6.78
11	(a) Commerce	9.01
	(b) Humanities	9.31
12	(a) Technical	3.94
	(b) Science	4.34
13	(a) Technical	6.31
	(b) Commerce	6.06
14	(a) Commerce	0.72*
	(b) Agriculture	17.88
15	(a) Agriculture	33.79
	(b) Science	6.46
16	(a) Humanities	43.31
	(b) Agriculture	15.17
17	(a) Commerce	1.93*
	(b) Humanities	13.70
18	(a) Technical	1.01*
	(b) Science	7.12
19	(a) Fine Arts	15.26
	(b) Commerce	4.17
20	(a) Humanities	20.88
	(b) Technical	9.94
21	(a) Science	13.09
	(b) Agriculture	17.22

Item No.	Interest	Chi-square values
23	(a) Agriculture	13.44
	(b) Commerce	1.78*
24	(a) Fine Arts	10.73
	(b) Humanities	1.44*
25	(a) Humanities	33.66
	(b) Science	4.49
26	(a) Agriculture	14.23
	(b) Fine Arts	72.24
27	(a) Science	19.91
	(b) Commerce	14.56
28	(a) Technical	10.16
	(b) Agriculture	30.02
29	(a) Fine Arts	30.78
	(b) Science	8.14
30	(a) Technical	13.95
	(b) Commerce	14.85

* marked items having values below the level of significance.

Chi-square values at .05 level - 3.84

Chi-square values at .01 level - 6.63

TABLE 2 (c)

Showing the Chi-Square Values of
the Items of the Sub-Test No. 3

Item No.	Interest	Chi-Square value
1	Science	27.75
2	Humanities	12.67
3	Commerce	49.00
4	Technical	0.22*
5	Fine Arts	34.56
6	Agriculture	17.03
7	Humanities	8.80
8	Commerce	82.70
9	Science	27.47
10	Agriculture	52.36
11	Fine Arts	40.97
12	Technical	34.16
13	Commerce	87.95
14	Technical	8.77
15	Fine Arts	92.60
16	Agriculture	30.80
17	Science	0.00*
18	Humanities	13.00
19	Technical	18.00
20	Commerce	106.00
21	Science	0.01*

Item No.	Interest	Chi-square value
22	Fine Arts	121.03
23	Humanities	15.20
24	Agriculture	61.40
25	Fine Arts	5.82
26	Humanities	13.73
27	Science	27.05
28	Agriculture	32.47
29	Commerce	35.31
30	Technical	17.21
31	Agriculture	32.10
32	Fine Arts	93.16
33	Technical	0.16*
34	Commerce	52.36
35	Humanities	20.05
36	Science	25.45
37	Science	25.45
38	Agriculture	22.96
39	Commerce	15.20
40	Fine Arts	58.01
41	Technical	26.05
42	Fine Arts	30.31
43	Humanities	20.86
44	Commerce	40.97

Item No.	Interest	Chi-square value
45	Agriculture	37.19
46	Fine Arts	52.36
47	Technical	14.23
48	Science	23.52
49	Agriculture	0.31*
50	Humanities	47.89
51	Science	24.86
52	Fine Arts	81.23
53	Commerce	0.80*
54	Technical	24.02
55	Technical	21.21
56	Fine Arts	37.19
57	Science	12.41
58	Agriculture	22.45
59	Commerce	28.44
60	Humanities	12.00
61	Fine Arts	75.40
62	Technical	27.32
63	Commerce	31.83
64	Agriculture	20.16
65	Humanities	10.95
66	Science	43.24
67	Agriculture	37.19

Item No.	Interest	Chi-square value
68	Fine Arts	46.78
69	Technical	15.20
70	Science	76.01
71	Commerce	21.20
72	Humanities	15.03
73	Commerce	6.35
74	Science	2.79*
75	Technical	23.04
76	Humanities	6.16
77	Humanities	0.11*
78	Agriculture	26.05

* marked items having values below the level of significance.

Chi-square values at .05 level - 3.84

Chi-square values at .01 level - 6.63

TABLE 2 (d)

Showing the Chi-Square Values of the
Items of the Sub-Test No. 4

Item No.	Interest	Chi-Square value
1	Science	1.25*
2	Humanities	13.88
3	Commerce	7.12
4	Technical	13.45
5	Fine Arts	27.43
6	Agriculture	4.58
7	Humanities	25.85
8	Commerce	1.97*
9	Science	4.72
10	Agriculture	12.11
11	Fine Arts	41.47
12	Technical	7.60
13	Commerce	6.63
14	Technical	15.66
15	Fine Arts	43.31
16	Agriculture	6.05
17	Science	16.66
18	Humanities	3.26*
19	Technical	7.87
20	Commerce	6.50
21	Science	18.26

Item No.	Interest	Chi-square value
22	Fine Arts	37.62
23	Agriculture	24.34
24	Humanities	4.27
25	Fine Arts	7.12
26	Humanities	4.60
27	Science	11.58
28	Agriculture	18.14
29	Commerce	23.96
30	Technical	15.50
31	Agriculture	3.74*
32	Fine Arts	13.55
33	Technical	12.97
34	Commerce	17.64
35	Humanities	10.67
36	Science	2.15*
37	Science	25.92
38	Agriculture	5.26
39	Commerce	26.86
40	Fine Arts	20.86
41	Technical	6.43
42	Humanities	2.93*
43	Humanities	14.24
44	Commerce	9.16

Item No.	Interest	Chi-square value
45	Agriculture	21.26
46	Fine Arts	9.54
47	Technical	18.14
48	Science	18.43
49	Commerce	11.68
50	Humanities	13.35
51	Science	3.84
52	Fine Arts	14.85
53	Technical	12.44
54	Agriculture	22.68
55	Technical	10.18
56	Fine Arts	4.97
57	Science	12.36
58	Agriculture	27.30
59	Commerce	31.67
60	Humanities	13.83
61	Fine Arts	29.69
62	Technical	1.34*
63	Commerce	10.82
64	Agriculture	12.96
65	Humanities	11.19
66	Science	15.48
67	Agriculture	20.11

Item No.	Interest	Chi-square value
68	Technical	5.85
69	Fine Arts	27.81
70	Science	17.08
71	Commerce	26.04
72	Humanities	10.92

* marked items having values below the level of significance.

Chi-square values at .05 level - 3.84
 Chi-square values at .01 level - 6.63

TABLE 3
Inter-Correlations Between Sub-
Tests

(a) Fine Arts Interest

Sub-tests	ST1	ST2	ST3	ST4
ST1	(1)	.645	.804	.588
ST2		(1)	.610	.540
ST3			(1)	.601
ST4				(1)

(b) Technical Interest

Sub-tests	ST1	ST2	ST3	ST4
ST1	(1)	.506	.570	.482
ST2		(1)	.516	.359
ST3			(1)	.430
ST4				(1)

(c) Commerce Interest

Sub-tests	ST1	ST2	ST3	ST4
ST1	(1)	.430	.870	.530
ST2		(1)	.170	.320
ST3			(1)	.490
ST4				(1)

(d) Agriculture Interest

Sub-tests	ST1	ST2	ST3	ST4
ST1	(1)	.619	.681	.578
ST2		(1)	.438	.452
ST3			(1)	.602
ST4				(1)

(e) Humanities Interest

Sub-tests	ST1	ST2	ST3	ST4
ST1	(1)	.650	.586	.516
ST2		(1)	.428	.419
ST3			(1)	.260
ST4				(1)

(f) Science Interest

Sub-Tests	ST1	ST2	ST3	ST4
ST1	(1)	.551	.617	.553
ST2		(1)	.508	.315
ST3			(1)	.377
ST4				(1)

TABLE IV

Showing First Factor Loadings

Interest	ST1	ST2	ST3	ST4
Fine Arts	.900	.817	.893	.793
Technical	.829	.762	.815	.712
Commerce	.938	.538	.865	.744
Agriculture	.886	.755	.836	.801
Humanities	.897	.811	.724	.683
Science	.880	.754	.805	.697