APPENDIX F

Computation of product moment r between scores given by two scorers X and Y for a group of 50 Ss.

Scoring by Y

Scoring by X	171-190	191-210	211-230	231-250	251-270	271-290	291-310	311-330	331-350	351-370	371-390	391-410	f_x	x'	fx'	fx'^2	x'y' +	y'	x'y' −
371-390												48^{48}	1	6	6	36	48	8	48
351-370													0	5					
331-350													0	4					
311-330								9^{19}					1	3	3	9	9	3	9
291-310							8^{24}		8^{18}				3	2	6	12	16	8	16
271-290				1^{1}		6^{32}		9^{33}					7	1	7(22)	7	15	1 14	14
251-270				0^{10}	0^{10}	0^{5}	0^{3}	0^{1}					20	0				13	0
231-250					0^{3}								3	-1	-3	3			
211-230		8^{24}	10^{52}	0^{1}									8	-2	-16	32	18	-9	18
191-210		6^{16}	9^{33}										4	-3	-12	36	15	-5	15
171-190	1^{12}	1^{12} 16^{28}											3	-4	-12(-43)	48	28	-7	28
f_y	1	5	10	14	5	8	5	1	0	0	0	1	50		-21	183	149-1	25	148
y'	-3	-2	-1	0	1	2	3	4	5	6	7	8					(148)		
fy'	-3	-10	-10(-23)		5	16	15	4				8(48)	25						
fy'^2	9	20	10		5	32	45	16				64	201						
x'	-4	-15	-18	-5		7	6	2				6	-21						
x'y'	12	30	18	0		14	18	8				48	148						

(Continued on the next page)

APPENDIX F

Computation of product moment r between scores given by two scorers X and Y for a group of 50 Ss.
(Calculations continued)

$$c_y = \frac{25}{50} = .5 \qquad c_x = \frac{-21}{50} = -.42$$

$$c_y^2 = .2500 \qquad c_x^2 = .1764$$

$$\sigma'_y = \sqrt{\frac{201}{50} - .25} \qquad \sigma'_x = \sqrt{\frac{183}{50} - .1764}$$

$$= 1.94 \qquad = 1.87$$

$$r = \frac{\frac{148}{50} - .5(-.42)}{1.94 \times 1.87}$$

$$= .87$$