

QUIPU AS208

Museum identification: IX/1961 (Museum für Völkerkunde, Vienna)

Main Cord: color W

- b 10.0 cm: group of 6 pendant cords (1-6), then space of 1.0 cm
- 12.0 cm: group of 6 pendant cords (7-12), then space of 2.5 cm
- 15.5 cm: group of 6 pendant cords (13-18), then space of 2.5 cm
- 19.0 cm: group of 6 pendant cords (19-24), then space of 1.5 cm
- 21.5 cm: group of 6 pendant cords (25-30), then space of 1.0 cm
- 23.5 cm: group of 6 pendant cords (31-36), then space of 1.5 cm
- 26.5 cm: group of 6 pendant cords (37-42), then space of 5.0 cm
- 33.0 cm: group of 16 pendant cords (43-58), then space of 1.5 cm
- 37.5 cm: group of 15 pendant cords (59-73), then space of 1.0 cm
- 41.5 cm: group of 15 pendant cords (74-88), then space of 2.0 cm
- 47.0 cm: group of 15 pendant cords (89-103), then space of 1.5 cm
- 52.0 cm: group of 15 pendant cords (104-118), then space of 2.0 cm
- 57.0 cm: group of 15 pendant cords (119-133), then space of 1.0 cm
- 61.0 cm: group of 15 pendant cords (134-148), then space of 0.5 cm
- 64.5 cm: group of 15 pendant cords (149-163), then space of 5.0 cm
- 71.5 cm: end*

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
1	-	37.0¢	W	0	
2	-	36.0¢	AB	0	
3	4L(21.0)	31.0¢	AB	4	1:9.0
3s1	1s(4.0);1E(12.0)	25.0¢	MB	11	
4	-	42.0¢	AB	0	1:10.0
4s1	4L(11.0)	25.0¢	MB	4	
5	-	65.0¢	MG:W	0	1:10.0
5s1	6L(11.0)	26.0¢	MB	6	
6	1s(14.0);7L(22.0)	37.0¢	AB	7	1:10.0
6s1	3L(11.0)	25.0¢	MB	3	
7	-	41.0¢	W	0	
8	2s(13.0);7L(21.0)	33.0¢	AB	27	
9	1s(13.0);3L(22.0)	42.0¢	AB	13	
10	1s(13.0);1E(22.0)	42.0¢	AB	11	
11	2s(13.0);4L(21.0)	39.0¢	MG:W	24	
12	5s(14.0);3L(23.0)	36.0¢	AB	53	1:10.0
12s1	2L(12.0)	26.0¢	MB	2	
13	-	58.0¢	W	0	
14	1s(13.0);5L(21.0)	36.0¢	AB	15	
15	3L(21.0)	34.0¢	AB	3	
16	6L(21.0)	36.0¢	AB	6	
17	1s(13.0);7L(21.0)	34.0¢	MG:W	17	
18	3s(13.0);3L(21.0)	38.0¢	AB	33	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
19	-	38.0¢	W	0	
20	1s(14.0);7L(22.0)	38.0¢	AB	17	
21	7L(21.0)	43.0¢	AB	7	
22	2L(22.0)	40.0¢	AB	2	
23	8L(22.0)	37.0¢	MG:W	8	
24	4s(14.0);9L(22.0)	35.0¢	AB	49	
25	-	37.0¢	W	0	
26	1s(13.5);2L(22.0)	35.0¢	AB	12	
27	8L(23.0)	37.0¢	AB	8	
28	8L(23.0)	37.0¢	AB	8	
29	2s(14.5)	41.5¢	MG:W	20	
30	3s(14.0);7L(22.5)	35.5¢	AB	37	
31	-	40.0¢	W	0	
32	3s(14.0);2L(20.0)	32.0¢	AB	32	
33	1s(14.0);2L(21.0)	34.0¢	AB	12	
34	6L(21.0)	34.0¢	AB	6	
35	3s(14.0)	40.0¢	MG:W	30	
36	7s(13.5);2L(19.5)	28.5¢	AB	72	
37	-	55.0¢	AB	0	
38	3s(15.0)	29.0¢	AB	30	
39	1s(15.0);1E(23.0)	39.5¢	AB	11	
40	1s(16.0)	43.0¢	AB	10	
41	1s(14.5);4L(22.5)	44.5¢	MG:W	14	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
42	5s(15.0)	32.0¢	AB	50	
43	6L(25.0)	52.0¢	MG	6	1:10.0
43s1	9L(15.0)	34.0¢	KG	9	
44***	-	19.3¢	FB:W	?	1:10.0
44s1	8L(15.0)	44.0¢	KG	8	
45	5s(16.0)	42.0¢	W	50	2:9.0
45s1	1s(6.0);1E(16.0)	41.0¢	KG	11	
45s2	2L(14.0)	27.0¢	AB-W	2	
46	-	52.0	W	0	
47	4L(25.0)	40.0	AB	4	1:9.0
47s1	4L(16.0)	34.0¢	KG	4	
48	1s(15.0);1E(25.0)	38.0¢	AB	11	
49	9L(23.0)	33.0¢	AB	9	
50	1E(25.0)	39.0¢	AB	1	1:9.0
50s1	8L(16.0)	35.0¢	AB	8	
51	2L(26.0)	56.0¢	AB	2	
52	5L(25.0)	55.0¢	AB	5	1:9.0
52s1	5L(16.0)	19.0b	KG	5	
53	5L(28.0)	55.0¢	AB	5	
54	-	43.0¢	MG:W	0	
55	3L(27.0)	54.0¢	W	3	
56	1s(16.0);1E(26.0)	55.0¢	W	11	
57	1s(16.0);6L(26.0)	32.0¢	W	16	
58	6L(27.0)	39.0¢	B	6	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
59***	-	41.0¢	MG	0	
60***	4L(22.0)	32.0b	FB:W	(?) 4	
61	2s(16.0)	50.0¢	W	20	
62	-	45.0¢	W	0	
63	3L(23.0)	38.0¢	AB	3	
64	6L(23.0)	38.0¢	AB	6	
65	1s(13.0); 1E(21.5)	31.5¢	AB	11	
66	4L(22.0)	40.0¢	AB	4	1:10.0
66s1	4L(10.0)	20.0¢	AB:KG	4	
67	2L(23.0)	39.0¢	AB	2	
68	2L(23.0)	33.0b	AB	2	1:8.0
68s1	2L(15.0)	33.0¢	KG	2	
69	-	46.0¢	MG:W	0	
70	-	40.0¢	W	0	
71	5L(25.0)	38.0¢	W	5	
72	6L(24.0)	33.0¢	W	6	
73	-	37.0¢	B	0	1:11.0
73s1	1E(14.0)	34.0¢	AB-W	1	
74	3L(25.0)	50.0¢	MG	3	
75	1s(18.0)	41.0¢	FB:W	10	1:12.0
75s1	1s(5.0); 6L(15.0)	25.0¢	KG	16	
76	5s(15.0)	49.0¢	W	50	1:11.0
76s1	1E(14.0)	28.0¢	AB-W	1	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
77	-	39.0	W	0	
78	3L(22.0)	30.0	AB	3	1:11.0
78s1	-	0.0b	?	?	
79	1s(15.0)	31.0¢	AB	10	
80	6L(26.0)	58.0¢	AB	6	
81	3L(21.0)	39.0¢	AB	3	1:9.0
81s1	5L(13.0)	17.0¢	AB:KG	5	
82	3L(24.0)	32.0¢	AB	3	1:10.0
82s1	1E(14.0)	15.0¢	KG	1	
83	6L(21.0)	34.0¢	AB	6	1:10.0
83s1	1E(12.0)	15.0¢	KG	1	
84	-	44.0¢	MG:W	0	
85	3L(24.0)	38.0¢	W	3	1:9.0
85s1	1E(13.0)	15.0¢	KG	1	
86**	-	15.0b	W	0	
87	8L(25.0)	37.0¢	W	8	
88	3L(24.0)	39.5¢	B:OB	3	1:9.0
88s1	2L(14.0)	19.0¢	MG	2	
89	7L(23.0)	55.0¢	MG	7	
90	1s(12.0);2L(24.0)	41.0¢	FB:W	12	
91	4s(14.0);1E(25.0)	54.0¢	W	41	1:9.0
91s1	3L(15.0)	25.0¢	AB-W	3	
92	-	49.0¢	W	0	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
93	2L(22.0)	52.0b	AB	2	
94	2s(9.0);1E(22.0)	45.0¢	AB	21	
95	4L(25.0)	40.0¢	AB	4	
96	6L(24.0)	35.0¢	AB	6	1:9.0
96s1	4L(14.0)	19.0¢	AB:KG	4	
97	3L(24.0)	45.0¢	AB	3	
98	4L(23.0)	42.0¢	AB	4	
99	4L(21.0)	34.0¢	AB:KG	4	
100	-	37.0¢	W	0	
101	4L(22.0)	34.0¢	W	4	
102	5L(23.0)	38.0¢	W	5	
103	6L(23.0)	36.0¢	B:OB	6	
104	2L(24.0)	45.0¢	MG	2	1:9.0
104s1	1s(6.0)	6.0b	FB	(1?)?	
105	1s(14.0);1E(24.0)	36.0¢	MG:W	11	
106	4s(14.0);2L(23.0)	53.0¢	W	42	
107	-	42.0¢	W	0	
108	4L(24.0)	38.0¢	AB	4	
109	1s(11.0);1E(24.0)	29.0¢	AB	11	
110	1E(26.0)	32.0¢	AB	1	
111	4L(27.0)	32.0¢	AB	4	1:10.0
111s1	4L(12.0)	23.0¢	AB:KG	4	1:3.0
111s1s1	1E(9.0)	18.0¢	KG	1	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
112	2L(22.0)	30.0¢	AB	2	
113	3L(24.0)	31.0¢	AB	3	
114	-	39.0¢	AB:KG	0	
115	3L(22.0)	35.0¢	W	3	
116	6L(23.0)	26.5¢	W	6	
117	8L(24.0)	27.0¢	W	8	
118	2L(23.0)	38.0	B	2	1:8.0;1:10.0
118s1	3L(14.0)	22.0¢	KG	3	
118s2	1E(13.0)	28.0¢	AB-W	1	
119	4L(24.0)	42.0¢	MG	4	
120	1s(13.0);6L(18.0)	25.0¢	MG:W	16	
121	4s(13.0);7L(23.5)	56.5¢	W	47	1:9.0
121s1	-	0.0b	?	?	
122	-	47.0¢	W	0	
123	4L(23.0)	38.0¢	AB	4	
124	1s(12.0);2L(22.0)	25.0¢	AB	12	
125	4L(23.0)	36.0¢	AB	4	
126	-	55.0¢	AB	0	1:11.0
126s1	7L(11.0)	22.0¢	AB:KG	7	
127	2L(24.0)	45.0¢	AB	2	
128	3L(22.0)	46.0¢	AB	3	
129	-	40.0¢	AB:KG	0	
130	3L(21.0)	25.0¢	W	3	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
131	5L(24.0)	35.0¢	W	5	1:11.0
131s1	1E(11.0)	18.0¢	KG	1	
132	7L(24.0)	33.0¢	W	7	
133	3L(22.0)	39.0¢	B:OB	3	1:10.0
133s1	2L(10.0)	19.0¢	KG	2	
134	8L(23.0)	33.0¢	MG	8	
135	1s(12.0);4L(20.0)	32.0¢	MG:W	14	1:7.0
135s1***	-	33.0b	FB:W	0	
136	9s(10.0);1E(21.0)	22.0¢	W	91	
137	-	30.0¢	W	0	
138	4L(23.0)	48.0¢	AB	4	
139	3s(13.0);1E(22.0)	34.0¢	AB	31	
140	1s(13.0);2L(23.0)	42.0¢	AB	12	
141	2L(21.0)	32.0¢	AB	2	1:7.0;1:8.0
141s1	1E(13.0)	39.0¢	AB-W	1	
141s2	7L(10.0)	24.0¢	AB:KG	7	
142	7L(21.0)	25.0¢	AB	7	
143	1s(12.0)	39.0¢	AB	10	1:9.0
143s1	2L(11.0)	20.0¢	AB-W	2	
144	-	40.0¢	AB:KG	0	
145	5L(21.0)	25.0¢	W	5	
146	5L(22.0)	29.0¢	W	5	1:9.0
146s1	1E(10.0)	17.0¢	AB-W	1	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
147	7L(28.0)	37.0¢	W	7	1:7.0
147s1	1E(14.0)	21.0¢	KG	1	
148	3L(19.0)	39.0¢	B:OB	3	3:8.0-9.0
148s1	3L(12.0)	18.0¢	KG	3	
148s2	1E(12.0)	18.0¢	AB-W	1	
148s3	1E(10.0)	18.0¢	AB:W	1	
149	-	39.0¢	MG	0	1:4.0
149s1	6L(13.0)	25.0¢	AB	6	
150	9L(21.0)	34.0¢	MG:W	9	1:6.0
150s1	1s(6.0);3L(14.0)	36.0¢	AB	13	
151	4s(11.0);8L(19.0)	31.0¢	W	48	1:5.0
151s1	1s(6.0);2L(14.0)	36.0¢	AB	12	
152	-	40.0¢	W	0	
153	7L(22.0)	43.0¢	AB	7	
154	1s(12.0);6L(23.0)	32.0¢	AB	16	1:9.0
154s1	4L(14.0)	21.0¢	AB	4	
155	8L(20.0)	33.0¢	AB	8	1:7.0
155s1	6L(13.0)	23.0¢	AB	6	
156	7L(21.0)	34.0¢	AB	7	1:9.0
156s1	8L(11.0)	23.0¢	AB:KG	8	
157	3L(21.0)	29.0¢	AB	3	1:7.0
157s1	2L(14.0)	35.0¢	AB	2	
158	7L(20.0)	26.0¢	AB	7	1:7.0

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
158s1	7L(14.0)	34.0¢	AB	7	
159	-	37.0¢	AB:KG	0	
160	1E(22.0)	42.0¢	W	1	1:6.0
160s1	1E(12.0)	25.0¢	AB-W	1	
161	5L(21.0)	39.0¢	W	5	
162	3L(20.0)	38.0¢	W	3	1:6.0
162s1	2L(14.0)	25.0¢	KG	2	
163	5L(19.0)	29.5¢	AB:KG	5	2:6.0-6.5
163s1	1E(13.0)	26.0¢	KG	1	
163s2	1E(13.0)	22.0¢	AB-W	1	

Observations

1. Construction Note: The main cord is finished with a thread wrapping extending for 1.0 cm.
- **2. With the quipu were 4 broken cords. Two of them were W with finished ends, no knots, and lengths of 24.0 cm and 45.0 cm. We assume that the 24.0 cm W cord completes pendant 86. The other two cords were AB. One had a finished end, no knots, and length 27.0 cm. The other was broken at both ends, 37.0 cm long with 1E knot 7.0 cm from one end.
- ***3. Pendant 44 was broken at 10.0 cm but a directly associated cord was assumed to be its continuation.

Pendant 59 was broken at 12.0 cm but a directly associated cord was assumed to be its continuation.

Pendant 60 was broken at 15.0 cm. A directly associated cord was assumed to be a part of it but the s knot position may be missing.

Subsidiary 135s1 was broken at 3.0 cm but a directly associated cord was assumed to be its continuation.

4. Provenance: Huaura Valley, near Lima, on Santa Rosalia Hacienda. It was found in the remains of a building that was probably an Inca tambo on an old Inca road at its entrance into the cultivated valley. Close by lay the remains of a small settlement and a cemetery.
5. By spacing the quipu is separated into two parts. It may have had additional parts as the main cord is not complete.
6. Part I consists of seven cord groups with six pendants each. The groups are separated by spacing and color pattern.
 - a) With one exception (pendant 1 in group 7) the color pattern is W,AB,AB,AB,MG:W,AB. All subsidiaries are color MB and appear only on positions 3 through 6 in groups 1 and 2.
 - b) In all groups position 1 has value 0 or blank; position 6 has the maximum value; positions 2 and 5 are similar in magnitude; and positions 3 and 4 are similar in magnitude.

That is,

$$\left. \begin{array}{l} P_{i1} = 0 \\ 17 \leq P_{i6} = \max_j P_{ij} \leq 72 \\ P_{i2} \text{ and } P_{i5} \leq 32 \\ P_{i3} \text{ and } P_{i4} \leq 13 \end{array} \right\} i = 1, \dots, 7$$

Also, pendant values in groups 2, 4, and 6 have the same rank order. That is,

$$P_{i6} > P_{i2} > P_{i5} > P_{i3} > P_{i4} > P_{i1} \quad i = 2, 4, 6$$

c) The relative magnitudes of the values in adjacent groups is the same for positions 2 and 6. That is, for $j = 2, 6$,

$$P_{2j} > P_{1j}; P_{3j} < P_{2j}; P_{4j} > P_{3j}; P_{5j} < P_{4j}; P_{6j} > P_{5j}; P_{7j} < P_{6j}.$$

7. Part II consists of eight cord groups with 15 pendants each. The groups are separated by spacing and color pattern. (The first group has an additional pendant between pendants 10 and 11).

a) Pendants 4 and 11 subdivide each group into 3 subgroups. These pendant positions are the only ones that never contain any subsidiaries and, with one exception, all are zero-valued or blank. Positions 1-3 have the color pattern MG, FB:W for groups 1-4 then MG:W for groups 5-8, W; position 4 is W; positions 5-10 are all color AB; position 11 is MG:W for groups 1-3 then AB:KG for groups 4-8; positions 12-14 are all W; and position 15 is not consistent in color.

b) In every group pendants in position 8 have at least one subsidiary. With one exception each has a subsidiary of color AB:KG. In positions 12-15, if there is one subsidiary it is AB-W or KG; if there are two it is one of each of these colors; and if there are three it is one of each of these colors and an AB:W.

c) The numerical consistencies are:

i) In all groups the maximum value is in position 3.

ii) The values of the pendants in group 7 are the sum of the values on the pendants in the same positions in groups 4 and 3 for positions 3,6,10. That is,

$$P_{3j} + P_{4j} = P_{7j} \quad j = 3,6,10$$

iii) The values in positions 13-15 are the same for groups 6 and 7. That is,

$$P_{6j} = P_{7j} \quad j = 13,14,15$$