

## QUIPU AS44

Museum identification: No. 17/579 (Museo Nacional, Lima, Peru)

Main cord: color B:BL:W

§ 3.0 cm: group of 6 pendant cords (1-6), tied with top cord (T1), then space of 0.5 cm.

4.5 cm: group of 6 pendant cords (7-12), tied with top cord (T2), then space of 0.5 cm.

6.0 cm: group of 6 pendant cords (13-18), tied with top cord (T3), then space of 0.5 cm.

7.5 cm: group of 6 pendant cords (19-24), tied with top cord (T4), then space of 0.5 cm.

9.0 cm: group of 6 pendant cords (25-30), tied with top cord (T5), then space of 0.5 cm.

10.5 cm: group of 6 pendant cords (31-36), tied with top cord (T6), then space of 1.0 cm.

12.5 cm: group of 4 pendant cords (37-40), then space of 0.5 cm.

13.5 cm: group of 4 pendant cords (41-44), then space of 0.5 cm.

14.5 cm: group of 4 pendant cords (45-48)

15.0\* cm: group of 3 pendant cords (49-51),\* then space of 0.5 cm.

16.5 cm: group of 6 pendant cords (52-57), tied with top cord (T7), then space of 1.0 cm.

18.5 cm: group of 6 pendant cords (58-63), tied with top cord (T8), then space of 2.5 cm.

22.0 cm: group of 6 pendant cords (64-69), tied with top cord (T9)

23.0 cm: group of 6 pendant cords (70-75), tied with top cord (T10)

24.0 cm: group of 6 pendant cords (76-81), tied with top cord (T11)

25.0 cm: group of 6 pendant cords (82-87), tied with top cord (T12), then space of 43.0 cm.

69.0 cm: end ç

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
1	1s(15.5)	47.0¢	LB:W	10	
2	8s(15.0); 3L(24.5)	36.5¢	LB:W	83	1:9.0, 5:20.0-20.5
2s1	3s(5.0); 6L(8.5)	15.5¢	B	36	
2s2	1E(5.5)	14.5¢	LB	1	
2s3	1s(1.0); 2L(3.5)	12.0¢	W	12	
2s4	2L(6.5)	13.0¢	W	2	
2s5	2L(3.0)	10.0¢	LB:W	2	
2s6	5L(2.0)	10.5¢	LB	5	
3	4s(16.5); 3L(29.0)	40.0¢	LB:W	43	3:19.5-20.0
3s1	2L(4.5)	14.5¢	LB	2	
3s2	4L(4.0)	11.0¢	B:W	4	
3s3	3s(1.5); 7L(4.0)	8.0¢	LB	37	
4	1s(5.0); 6s(15.5); 1E(24.5)	34.5¢	LB:W	161	3:21.0-21.5
4s1	--	5.5b	LB	?	
4s2	6L(2.0)	4.0¢	LB:W	6	
4s3	1s(1.0); 9L(2.0)	6.5¢	LB	19	
5	--	16.0b	LB:W	?	
6	--	3.0b	LB:W		
T1	3s(7.0)	7.5b	LB:W	(3+)??	1:5.0
T1s1	3s(8.0); 4L(10.0)	19.5¢	B	34	
7	1E(18.5)	48.5¢	LB:W	1	
8	8L(18.0)	35.0¢	LB:W	8	
9	7L(18.5)	42.5¢	LB:W	7	2:16.5-17.0

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
9s1	1E(5.5)	13.5¢	LB:W	1	
9s2	3L(4.5)	15.5¢	LB	3	
10	1s(7.0); 7L(17.5)	41.5¢	LB:W	17	
11	4L(17.5)	46.5¢	LB:W	4	
12	3L(18.0)	47.0¢	LB:W	3	
T2	4s(8.0)	45.0¢	LB:W	40	
13	--	0.5b	W	?	
14	1s(9.0)	39.0¢	W	10	
15	7L(17.5)	33.5¢	W	7	
16	2s(9.5)	36.5¢	W	20	1:19.5
16s1	2L(4.5)	13.5¢	LB	2	
17	4L(18.0)	35.0¢	W	4	1:17.0
17s1	--	0.5b	LB	?	
18	2L(17.0)	42.0¢	W	2	
T3	4s(5.0); 6L(14.0)	23.0¢	W/B (5.0/23.0)	46	
19	1E(19.0)	36.0¢	LB:W	1	
20	1s(8.0); 1E(19.5)	35.5¢	LB:W	11	
21	2L(18.0)	35.0¢	LB:W	2	1:16.0
21s1	3L(3.5)	10.0¢	LB	3	
22	1s(8.5); 1E(20.0)	38.0¢	LB:W	11	
23	--	7.0b	LB:W	?	
24	6L(18.0)	36.5¢	LB:W	6	
T4	3s(9.0); 4L(19.0)	22.5¢	LB:W	34	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
25	1E(18.5)	43.5¢	B-W	1	
26	1s(8.0); 4L(18.0)	39.0¢	B-W	14	
27	3L(18.0)	42.0¢	B-W	3	1:17.0
27s1	3L(4.0)	13.0¢	LB	3	
28	1s(8.0); 2L(16.0)	43.0¢	B-W	12	
29	1E(18.5)	39.5¢	B-W	1	
30	2L(18.0)	37.0¢	B-W	2	
T5	3s(5.5); 3L(18.5)	34.5¢	B-W	33	
31	6L(22.0)	48.0¢	LB-W	6	
32	6s(11.0); 5L(23.0)	36.0¢	LB:W	65	4:20.0-20.5
32s1	1E(4.5)	11.5¢	LB	1	
32s2	2L(4.5)	9.5¢	LB:W	2	
32s3	1s(2.0); 2L(4.5)	13.0¢	W	12	
32s4	6L(4.0)	5.0b	LB	6	
33	3s(10.5); 4L(21.5)	44.5¢	LB:W	34	2:17.5-18.0
33s1	4L(3.0)	13.5¢	LB:W	4	
33s2	2s(1.0); 4L(6.0)	9.5¢	LB	24	
34	1s(3.0)	54.0¢	LB:W	100	3:20.0-20.5
34s1	6L(3.0)	8.5¢	LB:W	6	
34s2	1s(1.0); 5L(4.0)	10.0¢	LB	15	
34s3	1E(4.5)	24.5¢	LB:BL	1	
35	2s(10.5); 1E(21.0)	44.0¢	LB:W	21	1:19.5
35s1	4L(2.0)	12.0¢	LB	4	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
36	2s(10.0); 2L(22.5)	48.5ç	LB:W	22	
T6	--	33.0ç	LB:W	0	
37	1E(14.5)	31.5ç	B:W	1	
38	7L(14.5)	24.5	LB:W	7	1:12.5
38s1	5L(3.0)	13.0ç	LB	5	
39	2L(6.0); 7L(15.0)	23.5ç	LB:W	27(?)	
40	3L(14.0)	34.0ç	LB:W	3	
41	1E(17.0)	30.0	B:W	1	
42	--	0.5b	B:W	?	
43	--	0.5b	B:W	?	
44	2L(16.0)	40.0ç	B:W	2	
45	1E(14.0)	28.0	B:W	1	
46	4L(15.0)	33.5ç	LB:W	4	2:12.0-12.5
46s1	1E(6.0)	12.5ç	B:W	1	
46s2	1E(5.0)	12.0ç	LB	1	
47	1s(6.5)	20.0b	LB:W	10(?)	2:15.0-15.5
47s1	2L(3.0)	12.0ç	LB	2	
47s2	1E(4.5)	14.0ç	LB:W	1	
48	--	0.5b	LB:BL	?	
49	2L(13.0)	36.0ç	LB-W	2	
50	8L(12.0)	29.0ç	LB-W	8	1:10.0
50s1	?	?	LB	?	
51	3L(13.0)	34.0ç	LB-W	3	
52	--	11.0b	LB:W	?	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
53	1s(4.5)	11.5b	LB:W	1?	
54	6L(11.5)	30.0¢	LB:W	6	2:9.0-9.5
54s1	2L(3.5)	15.5¢	LB:W	2	
54s2	2L(3.0)	16.0	LB	2	
55	1s(4.0); 6L(14.5)	37.5¢	LB:W	16	1:11.0
55s1	1E(4.0)	12.0¢	LB	1	
56	7L(12.5)	32.5¢	LB:W	7	
57	4L(12.0)	28.0	LB:W	4	
T7	4s(3.5); 8L(17.5)	29.5	LB:W	48	
58	1E(12.0)	27.0¢	W	1	
59	1s(4.0); 1E(15.5)	36.5¢	W	11	3:3.5-4.0
59s1	3L(6.5)	18.5¢	W	3	1:0.5
59s1s1	6L(6.5)	23.5¢	B	6	
59s2	--	16.0¢	LB	0	
59s3	3L(6.0)	18.5¢	B	3	
60	2L(12.5)	31.5¢	W	2	1:12.5
60s1	1E(6.0)	15.0	LB	1	
61	2s(3.5); 5L(12.5)	23.5¢	W	25	1:8.5
61s1	1E(6.0)	18.5¢	B	1	
62	5L(13.0)	26.0¢	W	5	
63	5L(13.0)	29.0¢	W	5	
T8	4s(4.0); 9L(13.5)	21.5¢	W	49	
64	1E(13.5)	38.5¢	B:W	1	
65	1s(3.5); 4L(13.0)	33.0¢	B:W	14	2:7.0-7.5
65s1	1E(7.0)	20.0¢	B	1	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
65s2	3L(5.0)	18.0¢	W	3	
66	7L(13.0)	33.0¢	B:W	7	1:8.5
66s1	2L(4.0)	13.0¢	LB:W	2	
67	1s(3.0); 4L(13.0)	33.0¢	B:W	14	1:9.0
67s1	4L(5.0)	18.5¢	B	4	
68	2L(12.5)	30.5¢	B:W	2	
69	2L(12.5)	41.5¢	B:W	2	
T9	4s(3.0)	33.0¢	B:W	40	
70	1s(3.0); 2L(10.0)	36.0¢	LB-W	12	
71	6L(12.5)	35.5¢	LB-W	6	3:9.0-9.5
71s1	2L(5.5)	19.5¢	W	2	
71s2	1E(5.0)	16.0¢	LB	1	
71s3	2L(5.5)	18.5¢	B	2	
72	2L(13.0)	36.0¢	LB-W	2	1:8.0
72s1	1E(6.0)	14.0¢	LB	1	
73	8L(16.0)	34.0¢	LB:W	8	2:12.0, 16.0
73s1	2L(4.0)	19.0¢	B	2	
73s2	1E(7.0)	19.0¢	LB	1	
74	1E(12.0)	38.0¢	LB:W	1	1:9.5
74s1	2L(4.5)	18.5¢	LB	2	
75	3L(12.5)	28.0¢	LB:W	3	
T10	3s(3.0); 2L(17.0)	34.0¢	LB:B	32	
76	2L(12.5)	39.5¢	LB:BL	2	

Cord	Knots (no., type, position)	Length	Color	Value	Subsidiaries (no., position)
77	2s(3.0); 2L(13.0)	41.0¢	LB:BL	22	
78	7L(13.0)	35.5¢	LB:BL	7	2:14.5-15.0
78s1	1s(6.5)	14.5¢	B:W	1(?)	
78s2	6L(5.5)	16.5¢	LB	6	
79	2s(3.0); 9L(13.5)	33.5¢	LB:BL	29	1:13.5
79s1	3L(4.0)	15.0¢	LB	3	
80	8L(13.0)	39.0¢	LB:BL	8	
81	8L(12.5)	37.5¢	LB:BL	8	
T11	7s(2.0); 6L(16.0)	32.0¢	LB:BL	76	
82	1s(3.0)	40.0¢	B:BL	10	
83	1s(3.0)	44.0¢	B:BL	10	
84	7L(13.5)	40.5¢	B:BL	7	2:10.5-11.0
84s1	2L(3.5)	13.5¢	LB:W	2	
84s2	2L(3.0)	15.0¢	LB	2	
85	2s(3.0); 6L(13.5)	36.5¢	B:BL	26	1:10.5
85s1	2L(2.5)	12.5¢	LB	2	
86	5L(13.0)	39.0¢	B:BL	5	1:9.0
86s1	—	16.0	LB	0	
87	5L(12.0)	42.0¢	B:BL	5	
T12	6s(2.0); 6L(12.0)	29.0¢	B:BL	66	



Observations

- \*1. The main cord is mended beginning at 15.0 cm. and continuing for 1.0 cm. to just after pendant 51. One or more pendants could be missing. (In observations 2 & 4, we assume a pendant is missing between pendants 48 and 49.)
2. The quipu is viewed in 3 parts: Part I is 6 groups of 6 pendants each; Part II is 4 groups of 4 pendants each; and Part III is 6 groups of 6 pendants each.
3. Part I
  - (i) Each group is united by a top cord and within each group all pendants are the same color. With the exception of group 3 (in which the pendants are W and the top cord W/B), the top cords are the same color as the pendant group.
  - (ii) In all groups, positions 1 and 6 have no subsidiaries.
  - (iii) With the exception of group 5, pendant 4 has the maximum value.
  - (iv) Top cords on groups 2 and 5 sum their respective groups. The top cords on groups 1, 3, 4 probably do also but breakage makes it uncertain. In group 6, the top cord is blank. The values on the subsidiaries are not included in the sums.
4. Part II
  - (i) With the exception of the missing first pendant in group 4, all first positions are the same color and have the value 1. With the exception of pendant 4 in group 3, pendants 2-4 have the same color within each group.
  - (ii) In all groups, positions 1 and 4 have no subsidiaries.
5. Part III
  - (i) Each group is united by a top cord and, with the exception of group 4,

within each group all pendants and the top cord have the same color.

Group 4 is subdivided by color: the first 3 pendants are one color, the last 3 another color, and the top cord is yet another color.

- (ii) In all groups, positions 1 and 6 have no subsidiaries.
- (iii) In all groups, pendant 4 has the maximum value.
- (iv) The top cords in groups 2-5 are the sums of the pendants in their respective groups. In group 6, the top cord differs from the sum by 3 and the first group has breakage but is probably summed by its top cord. The subsidiary values are not included in the sums.
- (v) In 4 of the 6 groups (groups 2, 3, 5, 6), position 5 has the same value as position 6. Also, the sum of all pendant values in these 4 groups equals the sum of all pendant values in the last group of Part I.
- (vi) Seven pendant values appear in the same positions relative to each other in Part I and Part III. The values in

Group (X): P1, P2, P3

Group (X+1): P1, P2, P6

Group (X+2): P5

are the same for  $X=4$  in Part I, and  $X=2$  in Part III.