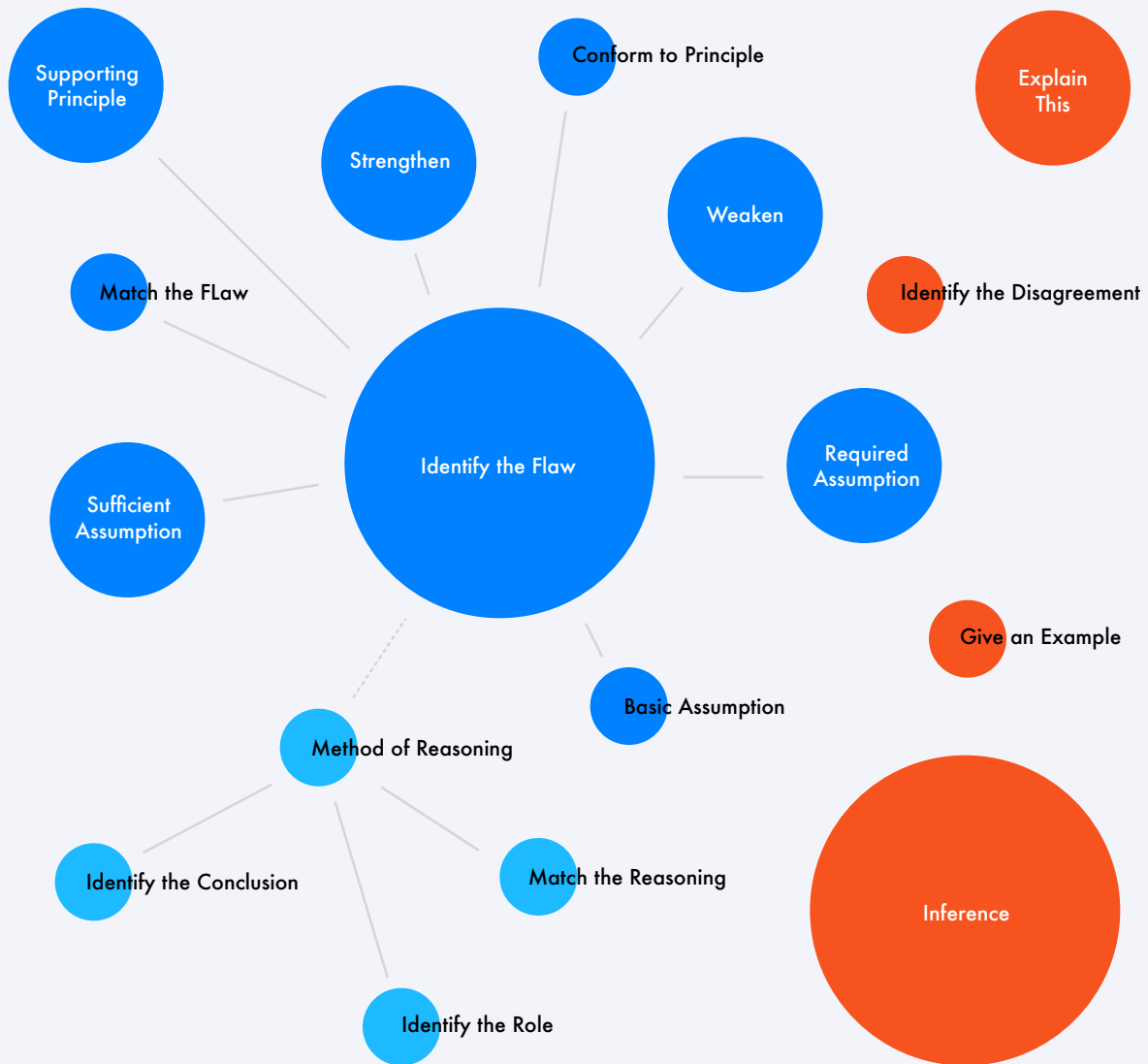


# LSAT QUESTIONS BY TYPE



THE CONSTELLATION OF LOGICAL REASONING QUESTION TYPES

---

# About

On the following pages you will find Logical Reasoning problems and Logic Games from Practice Exams 29 - 81, broken down by category.

The Logical Reasoning problems are either listed in tables or individually. In either case, they are represented by their exam, then their section number, then their question number. Thus, a notation such as 53.2.21 means Practice Exam 53, Section 2, Question 21.

Please feel free to use the following pages to find or note the problems that you plan to use for drilling, or to mark problems that you found difficult and want to review again.

**LOGICAL REASONING QUESTIONS BY TYPE**

flaw

PT	S	#	S	#
29	1	7, 14, 17	4	14, 18, 25
30	2	2, 13, 17, 25, 26	4	6, 8, 14
31	2	9, 18	3	1, 5, 8, 25
32	1	4*, 6, 10, 14, 19	4	6, 13, 15^
33	1	12, 22^, 24	3	5, 15, 17
34	2	1, 3, 9, 11	3	4, 10
35	1	6*, 17, 23	4	7, 8, 13, 18, 24
36	1	10, 12, 19	3	13, 21*, 25
37	2	3, 16, 25	4	12, 16, 17, 22
38	1	6, 8, 11, 23	4	2, 8, 14, 21
39	2	2, 14, 20	4	11, 15*, 20, 21, 23
40	1	12, 14	3	10, 12, 14, 19^, 21, 23
41	1	1, 18, 20, 22, 25	3	4, 11, 13, 20, 23
42	2	3, 12, 15, 17, 26	4	4, 12, 14, 20
43	2	9, 12, 20	3	4*, 18, 20*
44	2	1, 21, 25	4	9, 11, 20, 22
45	1	13, 15, 20, 24	4	10, 14, 17, 19, 24
46	2	11, 14, 24	3	2, 4, 7, 13, 23
47	1	1, 8, 23	3	8, 16, 19, 23
48	1	2, 13*, 17, 21, 24	4	11, 13, 15, 17, 25
49	2	5, 13, 18, 23	4	1, 6, 12, 23
50	2	3, 6, 10	4	2, 4, 7, 17, 19, 22
51	1	4, 6, 10, 12, 15, 18	3	4, 6, 9, 17
52	1	2, 6, 23	3	4, 8, 12, 16, 21
53	1	18, 22, 25	3	2, 6, 17
54	2	1, 5, 15, 19, 22	4	4, 14, 16, 19
55	1	14, 20, 24	3	2, 11, 18, 25

PT	S	#	S	#
56	2	1, 12, 15	3	1*, 4, 10, 17, 21*
57	2	4, 6, 15*, 26	3	2, 8, 10, 18, 22
58	1	9, 11, 18	4	5, 8, 14, 18
59	2	4, 6, 8, 15, 20	3	5*, 8, 20, 22, 24
60	1	1, 10, 12, 15*	3	8, 16, 19
61	2	1, 8*, 18	4	11, 15, 24
62	2	5, 8, 11*	4	10, 13, 19
63	1	3, 23, 25	3	2, 14, 18
64	1	5, 7, 16, 19, 24	3	2, 4, 6, 11, 14
65	1	8, 15, 17, 20	4	8, 11*, 26
66	2	1, 8, 11, 13*, 15, 21	4	1, 22, 25
67	2	9, 13, 21	4	9, 14, 21
68	2	7, 12, 20, 24	3	3, 5, 16, 21
69	1	3, 20, 24	4	3, 11, 16, 18, 22
70	1	2, 9, 15, 20	4	3, 9, 11
71	1	3, 18, 21, 24	3	1, 7, 18, 20
72	2	5, 14, 16, 18, 20	3	7, 11, 14, 22
73	2	3, 5, 13, 15, 18	4	3, 10, 25
74	1	5, 16, 18	4	8, 15, 18, 20, 22
75	1	7, 12, 18, 24	3	7, 10, 16, 18
76	2	1, 4, 16, 19	4	5, 13, 15
77	2	14, 18, 22	4	6, 9, 12
78	1	7, 9, 22	3	1, 5, 15
79	1	2, 6, 13, 15	4	9, 18
80	1	2, 13, 16	4	1, 11, 16, 26
81	2	8, 20, 25	3	7, 9, 13, 15, 23

\* = response; ^ = except

basic assumption

*useful to know*

29.4.4	31.3.17	54.2.2
29.4.5	34.3.11	56.2.4
30.2.15	46.3.26	

36.1.24	51.1.2	68.2.14	74.1.21	78.3.23
38.4.19	61.4.2	69.1.5	74.4.10	79.1.17
45.4.11*	65.1.3^	70.1.11^	77.2.10	80.4.22
46.3.3	65.4.7	73.4.6	78.3.8	81.2.16
49.4.2	* = except, ^ = least useful			

*Subcategories are mentioned in italics; for example, “useful to know” is a subcategory of basic assumption questions.*

# match the flaw

PT	S	#	S	#
29	1	23	4	21
30	2	6	4	25
31	2	21	3	23
32	1	22	4	21
33	1	15	3	18
34	2	24	3	23
35	1	24	4	6
36	1	21	3	19
37	2	21	4	4
38	1	16	4	17
39	2	18	4	26
40	1	20	3	17
41	1	23	3	8
42	2	24	4	22
43	2	24	3	22
44	2	22	4	19
45	1	11	4	20
46	2	20	3	19

PT	S	#	S	#
47	1	21	3	25
48	1	23	4	4
49	2	26	4	24
50	2	17	4	24
51	1	20	3	22
52	1	16	3	24
53	1	21	3	13*
54	2	21	4	8
55	1	1	3	23
56	2	7	3	14
57	2	8	3	15
58	1	7	4	22
59	2	9	3	15
60	1	21	3	23
61	2	(/)	4	26
62	2	7	4	9
63	1	24	3	25
64	1	9	3	23

PT	S	#	S	#
65	1	11	4	23
66	2	24	4	24
67	2	23	4	25
68	2	25	3	24
69	1	14	4	14
70	1	10	4	23
71	1	23	3	15
72	2	22	3	25
73	2	7	4	18
74	1	25	4	25
75	1	22	3	14
76	2	21	4	6
77	2	5	4	25
78	1	21	3	25
79	1	26	4	(/)
80	1	24	4	23
81	2	24	3	11

\* = except

# sufficient assumption

PT	S	#	S	#
29	1	20	4	(/)
30	2	(/)	4	1
31	2	10	3	(/)
32	1	5	4	4
33	1	(/)	3	21, 23
34	2	2, 10	3	(/)
35	1	20, 22	4	14, 19
36	1	18, 22, 26	3	12
37	2	5	4	9, 20
38	1	1	4	16
39	2	21	4	17
40	1	8, 19, 21	3	15
41	1	(/)	3	22
42	2	19, 23	4	(/)
43	2	18	3	16
44	2	13	4	26
45	1	21, 23	4	22
46	2	4, 23	3,	24

PT	S	#	S	#
47	1	9, 12	3	21
48	1	25	4	8, 21
49	2	7, 19, 25	4	18, 22
50	2	7, 22	4	13
51	1	16, 19	3	20
52	1	17, 20	3	15
53	1	20	3	(/)
54	2	13, 26	4	22
55	1	4	3	10, 21
56	2	10	3	16
57	2	7, 12	3	24
58	1	12, 25	4	19, 24
59	2	17, 26	3	10
60	1	22	3	3
61	2	13, 24	4	13, 25
62	2	9, 15, 17	4	16, 18
63	1	10	3	17, 22, 24
64	1	11, 23	3	21, 26

PT	S	#	S	#
65	1	16	4	(/)
66	2	6, 19	4	17, 20
67	2	(/)	4	13
68	2	23	3	15
69	1	25	4	13, 21
70	1	7	4	22
71	1	(/)	3	11, 14
72	2	8	3	(/)
73	2	10, 12	4	24
74	1	12, 20	4	16
75	1	23	3	15
76	2	10, 22	4	1, 14
77	2	9, 15	4	20, 24
78	1	(/)	3	10, 20
79	1	(/)	4	4, 10
80	1	9	4	5, 14
81	2	3, 9	3	20

# supporting principle

PT	S	#	S	#
29	1	19, 22	4	7, 17
30	2	(/)	4	23
31	2	22, 24	3	4, 26
32	1	(/)	4	8
33	1	21	3	6
34	2	20	3	16
35	1	2	4	11
36	1	15	3	20
37	2	22, 24	4	21
38	1	3	4	4
39	2	19	4	14
40	1	18	3	9
41	1	17	3	14
42	2	(/)	4	15
43	2	21	3	7, 11
44	2	(/)	4	2
45	1	(/)	4	3, 25
46	2	5	3	14

PT	S	#	S	#
47	1	3	3	26
48	1	9, 18	4	(/)
49	2	15	4	21
50	2	12	4	18
51	1	(/)	3	13
52	1	8, 19	3	
53	1	(/)	3	12
54	2	(/)	4	9
55	1	6	3	17
56	2	16	3	3, 12
57	2	(/)	3	19
58	1	(/)	4	(/)
59	2	13	3	(/)
60	1	18, 23	3	9, 24
61	2	5, 21	4	23
62	2	26	4	15, 20
63	1	15, 22	3	23
64	1	12	3	(/)

PT	S	#	S	#
65	1	24	4	5
66	2	7, 12	4	2, 11
67	2	8, 15, 18	4	7, 8
68	2	16	3	1, 12
69	1	6	4	17
70	1	23	4	1, 15
71	1	(/)	3	6, 9
72	2	1, 6	3	13, 17, 21
73	2	6	4	2
74	1	(/)	4	5, 21
75	1	2, 10	3	3
76	2	6, 23	4	(/)
77	2	8, 16	4	1
78	1	1, 18	3	6
79	1	14, 19	4	7, 15
80	1	4	4	8
81	2	6	3	(/)

## conform to principle

30.2.5	43.3.3	49.4.9	55.1.21	59.3.18	72.3.19	76.4.2
32.1.3	43.3.26	52.3.1	57.2.1	61.4.1	73.2.4	78.1.15
33.1.18	44.4.4	52.3.11	57.3.16	62.4.2	73.4.7	78.3.11*
37.2.18	44.4.13	53.3.18	58.1.23	66.2.9	74.1.3	80.4.6
41.1.19	47.1.7*	54.2.18	59.2.23	70.1.14	74.1.7	
* = goes against principle						

## illustrated principle

34.3.1	48.1.11	50.4.20	54.2.8	58.4.16	65.4.18
44.2.17	48.4.6	51.3.5	55.3.6*	58.4.25	65.4.23
46.2.3	50.2.25	51.3.7	57.2.10	62.2.1	71.3.13
46.3.8	50.4.3	53.1.5	58.1.4	63.3.3	76.4.9
* = except					

# required assumption

PT	S	#	S	#
29	1	5, 15	4	8
30	2	11, 22	4	19
31	2	2, 14	3	11, 13, 21
32	1	1, 21, 23, 25	4	7, 16, 19
33	1	10, 13, 19	3	11, 16, 25
34	2	13, 16, 21	3	3, 5, 9, 17
35	1	14, 18	4	16
36	1	3, 20	3	14, 16, 18
37	2	15, 19	4	15, 19, 23
38	1	12, 14, 24	4	6, 20, 22
39	2	17	4	4, 19, 25
40	1	5, 16	3	20, 22
41	1	6, 10, 24	3	7, 17
42	2	14	4	2, 13, 19
43	2	10, 16	3	1, 12
44	2	5, 9, 18, 23	4	7, 16
45	1	3	4	6, 13
46	2	10, 13	3	15, 17, 20
47	1	14, 17, 20	3	13, 17
48	1	15, 20	4	10
49	2	22	4	13, 16, 20
50	2	14, 16	4	11, 21
51	1	7	3	2, 15, 18
52	1	10, 25	3	7, 9, 13
53	1	9, 13, 15, 23	3	8, 15, 20
54	2	6, 9	4	3, 7, 18, 24
55	1	2, 12, 17	3	8, 19, 24

PT	S	#	S	#
56	2	6, 20	3	9, 18, 25
57	2	24	3	12, 17
58	1	1, 14, 16, 19, 22	4	11, 17, 21
59	2	14	3	12, 16, 25
60	1	7, 14, 20	3	11, 22
61	2	16	4	20
62	2	12, 25	4	23
63	1	5, 19	3	6, 11, 15
64	1	15	3	12, 19
65	1	18, 21	4	2, 13, 20
66	2	2, 4, 10	4	3, 7
67	2	6, 14	4	2, 11, 16, 18
68	2	2*, 15	3	18, 23
69	1	4, 7, 19	4	8
70	1	13, 21	4	6, 10, 20, 25
71	1	16, 22	3	19
72	2	12, 15, 21	3	4, 18
73	2	1, 8, 20	4	13, 19, 26
74	1	8	4	4, 6
75	1	1, 3	3	2, 17, 19, 23, 25
76	2	5, 18, 24	4	12, 16, 18, 20, 24
77	2	3, 6, 24	4	26
78	1	2, 14, 19, 24	3	12
79	1	4, 7, 18, 24	4	2, 6, 8, 21
80	1	5, 17, 25	4	18
81	2	5, 11, 23	3	4, 18

\* = useful to know

# strengthen

PT	S	#	S	#
29	1	3*	4	1, 11, 20*
30	2	3, 4, 21	4	12, 15, 18, 20
31	2	5	3	7, 9
32	1	20*	4	9, 11
33	1	1, 6	3	4, 9, 20
34	2	14	3	21, 24
35	1	15*	4	10
36	1	(/)	3	7, 11, 26
37	2	1, 6, 20*	4	13*, 25
38	1	4	4	5*
39	2	10, 15	4	13*, 18
40	1	6, 11, 13	3	2*, 8, 24
41	1	12	3	15*, 19*
42	2	10, 18	4	1, 9^, 23
43	2	8*, 14	3	2*, 10
44	2	7, 15	4	14, 17*
45	1	14, 19, 26	4	7
46	2	16, 19	3	22

PT	S	#	S	#
47	1	11, 26	3	2
48	1	3, 7, 10, 16	4	2
49	2	4*, 11*	4	4*
50	2	13	4	9, 23
51	1	24	3	3, 25
52	1	4	3	3
53	1	1*, 6, 10	3	1, 11, 25
54	2	24	4	1, 20
55	1	23	3	3, 14
56	2	14, 24	3	8, 13
57	2	5, 22	3	9
58	1		4	23
59	2	1, 3, 5, 22	3	11
60	1	11	3	2, 20, 21
61	2	6, 22*	4	4, 19
62	2	2, 3, 4, 16	4	3, 22
63	1	16, 18	3	21
64	1	17, 22	3	9, 17, 24

PT	S	#	S	#
65	1	1, 13, 14, 19	4	22
66	2	3*, 17	4	12, 16
67	2	3, 25	4	4
68	2	5, 13	3	7, 17
69	1	13	4	23
70	1	3, 25	4	4
71	1	6, 12	3	4, 8, 16*, 22, 25
72	2	3, 7, 23, 25	3	6, 8, 12
73	2	22	4	20
74	1	2, 4, 10, 17	4	3, 26
75	1	9, 15, 21	3	6, 12, 21
76	2	14, 25	4	3, 8
77	2	1, 2, 7, 21	4	4, 5, 17
78	1	12, 16	3	2, 21
79	1	10, 12, 23	4	14, 22
80	1	11, 23	4	4, 7
81	2	13	3	12

\* = except, ^ = least



# weaken

PT	S	#	S	#
29	1	16, 24	4	9, 24
30	2	1, 8, 9, 24^	4	11, 17, 24
31	2	3, 6, 16, 19	3	12*, 24
32	1	12, 17*	4	2
33	1	4, 17, 20*, 25	3	7, 24
34	2	12, 17, 25	3	6, 18, 20
35	1	4^, 8, 13	4	5, 17*, 20
36	1	2, 8, 25	3	2, 5
37	2	4, 14	4	2, 11^, 18
38	1	10^, 17	4	13, 15
39	2	9^	4	1, 22*
40	1	17	3	5
41	1	13^, 16	3	16*, 26
42	2	1, 4, 6, 20, 25	4	6
43	2	6	3	8, 19
44	2	4, 8*, 20	4	1, 5
45	1	2, 12, 16, 18	4	4
46	2	8, 22, 25	3	6

PT	S	#	S	#
47	1	2, 19, 22, 24	3	4, 7^, 14, 24
48	1	1, 19	4	9, 20, 23*, 26
49	2	6, 8, 14	4	8
50	2	2^, 24*	4	5, 12
51	1	8, 25	3	1
52	1	9^, 12, 21	3	6, 19
53	1	3, 8	3	4, 9, 14, 16
54	2	3, 14	4	10^
55	1	7, 9, 22	3	4^, 9, 22
56	2	3, 8	3	20
57	2	9, 14, 17, 20	3	6, 11
58	1	5, 24	4	2, 10
59	2	21, 25	3	2, 13
60	1	6, 13, 16	3	4, 13
61	2	11, 14, 20, 23	4	8, 21
62	2	22	4	5, 14
63	1	2, 7*	3	9, 16
64	1	4, 8, 10, 13	3	15

PT	S	#	S	#
65	1	5	4	3, 19*
66	2	5	4	4, 6^, 8
67	2	1, 17	4	6, 10, 24
68	2	4	3	9
69	1	17, 22	4	7, 15^, 19
70	1	16	4	12, 19
71	1	13	3	21*
72	2	2, 10	3	2, 10
73	2	9, 19	4	1, 17
74	1	6, 23	4	24
75	1	5, 11	3	13, 22*
76	2	9, 12	4	21, 23
77	2	4	4	11, 19
78	1	10, 25	3	26
79	1	21	4	19
80	1	19	4	25
81	2	4, 22	3	16, 22

\* = except, ^ = response

## i.d. the conclusion

PT	S	#	S	#
29	1	11	4	6
30	2	(/)	4	2
31	2	4	3	14
32	1	13	4	12
33	1	5	3	(/)
34	2	15,18	3	(/)
35	1	3,16	4	9
36	1	6	3	3,9
37	2	(/)	4	(/)
38	1	2	4	3,11
39	2	1	4	(/)
40	1	9	3	4
41	1	5	3	18
42	2	(/)	4	10
43	2	(/)	3	14,23
44	2	16	4	
45	1	1,17	4	1,9
46	2	(/)	3	5,21

PT	S	#	S	#
47	1	(/)	3	6
48	1	5,8	4	1,12
49	2	(/)	4	7
50	2	4,20	4	25
51	1	1,13	3	16
52	1	1	3	2
53	1	4	3	3,5
54	2	11	4	11
55	1	18	3	13,20
56	2	(/)	3	5,19
57	2	(/)	3	3
58	1	13	4	3
59	2	10	3	9
60	1	8	3	15
61	2	9	4	6,16
62	2	10	4	1,12
63	1	8,13	3	10
64	1	1	3	

PT	S	#	S	#
65	1	2,9	4	14
66	2	18	4	5,9,26
67	2	(/)	4	1
68	2	17,19	3	8,11
69	1	9	4	1,24
70	1	18	4	16
71	1	5,7	3	12
72	2	4	3	3,9
73	2	11	4	5,11
74	1	13	4	2
75	1	8	3	8
76	2	(/)	4	(/)
77	2	11	4	8
78	1	(/)	3	18
79	1	9	4	11,17
80	1	3,6	4	9
81	2	14	3	8

# i.d. the role

PT	S	#	S	#
29	1	(/)	4	2,15
30	2	(/)	4	3,13
31	2	12	3	16
32	1	15	4	23
33	1	(/)	3	14
34	2	22	3	14,26
35	1	1,9	4	2,15
36	1	(/)	3	6
37	2	(/)	4	(/)
38	1	18	4	18
39	2	16,22	4	(/)
40	1	25	3	6
41	1	(/)	3	(/)
42	2	2	4	3,16,18,21
43	2	2,23	3	
44	2	19,24	4	6,24
45	1	(/)	4	23
46	2	(/)	3	16,18

PT	S	#	S	#
47	1	(/)	3	(/)
48	1	(/)	4	5
49	2	12	4	(/)
50	2	15,19	4	6
51	1	14	3	11,23
52	1	(/)	3	17
53	1	11,14	3	10
54	2	17	4	15
55	1	19	3	7
56	2	9,25	3	(/)
57	2	13,16,21	3	21
58	1	(/)	4	(/)
59	2	7,18	3	
60	1	4	3	5,7
61	2	(/)	4	17,22
62	2	(/)	4	4
63	1	(/)	3	1
64	1	14,25	3	10,16

PT	S	#	S	#
65	1	10,22	4	12,21
66	2	(/)	4	(/)
67	2	12,20,22	4	22
68	2	11,22	3	(/)
69	1	11	4	12
70	1	17	4	24
71	1	11	3	(/)
72	2	13	3	15
73	2	(/)	4	9
74	1	14	4	(/)
75	1	14,16	3	20
76	2	(/)	4	7
77	2	(/)	4	7,14,16,22
78	1	(/)	3	4,14,17,19
79	1	22	4	24
80	1	(/)	4	(/)
81	2	18	3	17

# reasoning structure

29.1.12	40.1.2	52.3.5	60.1.25	68.3.20	74.4.17
32.1.8	40.3.13	53.3.24	61.2.4	69.1.23	75.1.4
33.1.2	45.1.4	55.1.3	61.2.17	69.4.4	75.3.11
33.3.12	45.1.7	56.3.6	62.4.21	70.4.26	77.2.17
35.1.11	45.4.12	58.1.6	63.1.17	71.1.2	78.1.5
36.1.7	46.3.10	58.1.26	63.3.19	71.1.9	81.3.3
36.3.8	47.1.10	59.3.14	64.1.3	73.2.16	81.3.21
36.3.24	47.3.20	59.3.23	66.2.25	73.4.4	
37.4.10	49.4.15	60.1.2	67.4.12	74.4.14	

# response

29.1.2	34.3.8	39.4.3	46.2.17	62.2.14	76.2.8
30.2.7	35.1.5	39.4.8	54.2.10	65.4.16	78.1.3
30.4.16	35.4.25	40.1.4	54.4.2	68.2.26	79.4.12
31.3.20	36.1.1	41.1.3	56.2.11	70.4.8	80.1.20
32.4.1	37.2.10	41.3.9	57.3.5	73.2.14	
34.2.8	37.2.13	41.3.12	58.4.12	74.4.1	

# match the reasoning

PT	S	#	S	#
29	1	13*	4	(/)
30	2	14	4	9
31	2	23	3	18
32	1	16	4	(/)
33	1	23	3	(/)
34	2	6	3	25^
35	1	(/)	4	23
36	1	(/)	3	(/)
37	2	26	4	14
38	1	22	4	(/)
39	2	8	4	(/)
40	1	23	3	25
41	1	15	3	24
42	2	22	4	(/)
43	2	11	3	25
44	2	(/)	4	21
45	1	25	4	(/)
46	2	18	3	(/)

PT	S	#	S	#
47	1	15	3	(/)
48	1	12	4	22
49	2	24	4	17
50	2	(/)	4	14
51	1	5	3	24
52	1	3	3	(/)
53	1	19	3	23
54	2	23	4	25
55	1	(/)	3	15
56	2	(/)	3	24
57	2	19	3	20
58	1	(/)	4	(/)
59	2	16	3	(/)
60	1	17	3	6
61	2	(/)	4	9
62	2	(/)	4	25
63	1	21	3	20
64	1	21	3	25

PT	S	#	S	#
65	1	(/)	4	17
66	2	16	4	13
67	2	19	4	19
68	2	9	3	22
69	1	(/)	4	10
70	1	19	4	17
71	1	14	3	24
72	2	26	3	23
73	2	17	4	21
74	1	19	4	19
75	1	25	3	9
76	2	(/)	4	22
77	2	(/)	4	23
78	1	23	3	13
79	1	(/)	4	16
80	1	14	4	19
81	2	21	3	25

\* = least similar, ^ = response

# inference

PT	S	#	S	#
29	1	6, 8, 18, 21	4	3, 12, 22*, 23
30	2	16, 18, 19^, 20, 23†	4	4, 7*, 10, 22
31	2	7, 8*, 15*, 17, 20	3	6, 10, 22
32	1	7, 9†, 11, 18, 24	4	10, 14, 24
33	1	7, 9, 11, 16^	3	8, 10, 13
34	2	4, 19, 23	3	12, 13, 19, 22*
35	1	12, 19	4	1^, 3, 21, 22‡, 26
36	1	4, 5‡, 11, 14, 16	3	17, 23 †
37	2	2, 7, 9, 12	4	1, 3, 6, 8
38	1	13, 15, 19, 20, 21	4	1, 10, 24, 25^
39	2	6, 7, 12, 24*	4	6, 10, 16
40	1	3, 7, 22, 24	3	3, 11
41	1	7, 9, 11, 21	3	2*, 3, 6, 10*, 25
42	2	7, 11, 16	4	7, 17, 25*, 26
43	2	4, 7, 17, 22	3	9, 17*, 21, 24
44	2	2, 11, 14	4	3, 8, 12, 15, 18*, 23
45	1	8, 22	4	16, 18
46	2	2, 7, 12	3	9, 11, 25
47	1	13, 16, 18	3	1, 3, 10, 12
48	1	6, 14, 26	4	3, 14, 16, 18*
49	2	9, 16*, 20, 21*	4	3, 5*, 10, 14, 19
50	2	9, 18	4	1, 10, 15
51	1	11, 21	3	12, 14, 19, 21
52	1	5, 7, 13, 15, 18*, 24	3	14, 18, 23
53	1	7, 16	3	7, 19, 21
54	2	7, 12, 16, 20, 25	4	5, 12, 23
55	1	5, 8, 10, 15, 25^	3	3, 5, 12, 16

PT	S	#	S	#
56	2	5 †, 19, 23	3	2, 11, 15, 22*
57	2	2, 18, 23 ‡, 25	3	13, 23, 25
58	1	10, 15, 20	4	6, 9, 13, 15
59	2	12, 19, 24	3	3, 7, 19, 21
60	1	3, 24	3	10, 12, 14, 17
61	2	3, 10, 15	4	3^, 5, 7, 10
62	2	6, 19, 21, 24*	4	6, 8, 11, 24
63	1	1, 6, 9, 12, 20	3	5, 7, 13
64	1	2, 18, 20	3	1, 3, 22
65	1	4, 7, 25	4	6, 9, 15
66	2	14, 22	4	21
67	2	5, 7, 11, 24	4	5, 15, 17, 20
68	2	1, 8, 10, 18	3	2, 4, 10, 13, 19
69	1	10, 12, 16, 21	4	2, 9, 20
70	1	1, 8, 22, 24	4	2, 14, 18, 21
71	1	1, 4, 8, 15, 17	3	5, 10, 17, 23
72	2	17, 24	3	16, 20, 24
73	2	21, 23, 25	4	8, 12, 14, 16
74	1	1, 11, 22, 24	4	7, 11, 13, 23
75	1	13, 17, 20	3	1, 4, 24
76	2	2, 13, 15, 17	4	17, 19
77	2	13, 23, 25*	4	13, 15, 18
78	1	8, 11, 13	3	3, 7, 22*, 24
79	1	8, 20*, 25	4	23, 25
80	1	10*, 22	4	12, 15, 17, 21
81	2	2, 7, 15, 17, 19	3	5, 10, 14, 19, 24

\* = must be false, ^ = except, † = opinion/conclusion, ‡ = against

give an example

PT	S	#	S	#
29	1	(/)	4	10
30	2	(/)	4	(/)
31	2	(/)	3	(/)
32	1	(/)	4	3,18
33	1	(/)	3	(/)
34	2	(/)	3	(/)
35	1	7	4	(/)
36	1	17	3	15
37	2	(/)	4	(/)
38	1	7	4	7*, 23
39	2	11	4	24
40	1	(/)	3	(/)
41	1	14	3	(/)
42	2	9, 21	4	8
43	2	(/)	3	5
44	2	12	4	(/)
45	1	9	4	2, 21
46	2	15, 21	3	12

PT	S	#	S	#
47	1	5	3	18, 22
48	1	4	4	(/)
49	2	3	4	(/)
50	2	1, 23	4	(/)
51	1	9, 17	3	(/)
52	1	22	3	25
53	1	17	3	(/)
54	2	(/)	4	17
55	1	11, 16	3	(/)
56	2	18	3	23
57	2	(/)	3	14^
58	1	2, 21	4	4
59	2	(/)	3	6
60	1	(/)	3	18
61	2	2	4	(/)
62	2	13, 18*	4	(/)
63	1	11	3	(/)
64	1	(/)	3	18

PT	S	#	S	#
65	1	6	4	(/)
66	2	(/)	4	14
67	2	(/)	4	(/)
68	2	(/)	3	(/)
69	1	8, 18^	4	6
70	1	6	4	(/)
71	1	19^, 25	3	(/)
72	2	(/)	3	(/)
73	2	(/)	4	23
74	1	(/)	4	(/)
75	1	(/)	3	(/)
76	2	2, 26	4	(/)
77	2	12	4	10^
78	1	(/)	3	(/)
79	1	16	4	13
80	1	21	4	24
81	2	10	3	(/)

\* = except, ^ = goes against

# i.d. the disagreement

PT	S	#	S	#
29	1	1,9	4	13,16
30	2	10	4	21
31	2	1	3	3*,15^,19
32	1	(/)	4	20,25^
33	1	3	3	2^,19
34	2	(/)	3	7,15
35	1	26†	4	(/)
36	1	(/)	3	4,10*
37	2	11,23	4	7,24*
38	1	5	4	26
39	2	4*,13,23	4	2,7
40	1	10^,15^	3	16
41	1	(/)	3	(/)
42	2	8,13	4	(/)
43	2	1,5^,13,19†	3	6
44	2	6	4	10
45	1	6,10	4	8
46	2	1,9	3	(/)

PT	S	#	S	#
47	1	4,25†	3	5,9
48	1	(/)	4	(/)
49	2	1,10	4	(/)
50	2	11	4	8
51	1	23	3	(/)
52	1	(/)	3	10
53	1	2,12^	3	(/)
54	2	(/)	4	(/)
55	1	(/)	3	(/)
56	2	2†,17,21	3	(/)
57	2	11	3	(/)
58	1	(/)	4	(/)
59	2	2	3	(/)
60	1	(/)	3	25
61	2	7	4	18
62	2	(/)	4	(/)
63	1	14	3	4
64	1	(/)	3	5,7

PT	S	#	S	#
65	1	23	4	4,25
66	2	20	4	19,23
67	2	10,16	4	(/)
68	2	21	3	25
69	1	2†	4	25†
70	1	4	4	5†
71	1	10	3	2
72	2	19	3	(/)
73	2	(/)	4	(/)
74	1	(/)	4	(/)
75	1	(/)	3	(/)
76	2	3	4	4,10
77	2	(/)	4	2
78	1	4,6,20	3	(/)
79	1	11	4	5,20
80	1	7,15,18†	4	2
81	2	26†	3	1

\* = i.d. the relationship, ^ = i.d. the interpretation, † = i.d. the agreement

# explain this

PT	S	#	S	#
29	1	4, 10, 25*	4	19*
30	2	12*	4	5*
31	2	11, 13*	3	2
32	1	2	4	5, 17
33	1	8*, 14	3	1, 3
34	2	5, 7	3	2*
35	1	10*, 21, 25	4	4, 12
36	1	9, 13, 23*	3	1
37	2	8*, 17*	4	5
38	1	9	4	9*
39	2	3, 5	4	5, 9, 12
40	1	1	3	1, 7*
41	1	2, 4, 8	3	1, 5*, 21
42	2	5	4	5, 11, 24
43	2	3, 15, 25	3	13, 15*, 18
44	2	3, 10	4	25
45	1	5	4	5, 15*
46	2	6	3	1
47	1	6	3	11*, 15*
48	1	22	4	7, 19, 24
49	2	2	4	11, 25*
50	2	5*, 8, 21	4	16
51	1	3, 22	3	8, 10
52	1	11*, 14	3	20, 22
53	1	24*	3	22*
54	2	4	4	6, 13, 21
55	1	13	3	1

PT	S	#	S	#
56	2	13, 22	3	7
57	2	3	3	1, 4, 7
58	1	3, 8*, 17	4	1, 7, 20
59	2	11	3	1, 4, 17*
60	1	5, 9	3	1
61	2	12, 19*, 25	4	12, 14
62	2	20	4	7, 17*, 26*
63	1	4	3	8, 12, 26
64	1	6	3	8, 13
65	1	12	4	1, 10
66	2	23	4	10, 15, 18
67	2	2, 4*	4	3, 23
68	2	3, 6	3	6, 14
69	1	1, 15	4	5
70	1	5, 12	4	7, 13
71	1	20	3	3, 26
72	2	9, 11	3	1, 5
73	2	2, 24	4	15, 22
74	1	9, 15	4	9, 12
75	1	6, 19	3	5
76	2	7, 11, 20	4	25
77	2	19	4	3, 21*
78	1	17	3	9, 16
79	1	1, 3, 5	4	1, 3
80	1	1, 8, 12	4	3, 13
81	2	1, 12	3	2, 6

\* = except



# ordering games

## basic

---

29.3	43.1	50.1	60.2	69.1	81.2
30.4	43.2	51.4	61.4	70.1	81.3
33.1	44.1	52.1	62.1	71.1	
34.3	45.1	54.3	62.4	71.4	
37.4	46.1	56.1	64.1	75.3	
38.1	47.1	57.1	65.1	76.1	
41.1	48.2	58.1	65.4	77.3	
41.4	49.1	59.2	66.2	79.4	
42.2	49.4	59.4	67.2	80.2	

with subsets + numbers issues

---

39.3	44.4	57.2
------	------	------

## with subsets

---

30.3	37.2	46.3	55.4	68.4	77.1
31.4	38.2	51.3	58.3	70.3	78.4
32.4	38.4	52.3	65.2	71.3	81.1
36.2	39.1	53.3	66.4	74.2	
36.4	41.2	55.3	68.1	75.4	

with subsets + or rules

---

54.4
------

## with numbers issues

---

31.3	35.4	55.2	60.3	63.4	79.1
34.1	40.2	57.4	61.3	77.2	

with numbers issues + conditional rules

---

30.2	78.2
------	------

## with significant or rules

---

32.3	51.2	53.2	63.2	72.2	74.1
40.1	52.4	61.2	63.3	73.1	78.3

# grouping games

## basic

---

38.3	45.4	51.1	52.2
------	------	------	------

## with subsets

---

29.2	37.3	55.1	60.4	67.1	80.1
35.1	43.3	57.3	64.3	75.1	80.3

## with numbers issues

---

29.1	46.4	53.1	69.2	74.3
35.2	47.3	56.3	69.4	75.2
40.3	48.1	63.1	71.2	76.2
42.3	48.3	64.4	72.3	81.4
42.4	49.2	66.3	73.3	
43.4	51.1	67.4	73.4	

## with significant conditional rules

---

31.2	34.4	41.3	58.2	76.4
33.2	36.1	49.3	59.3	

## with subsets + numbers issues

---

30.1	39.2	77.4
32.2	44.3	80.4
37.1	70.2	

## with subsets + conditional rules

---

54.1	78.1
------	------

## with numbers issues + conditional rules

---

39.4	47.2	58.4
45.3	56.2	62.2

## with numbers issues and significant or rules

---

79.2	79.3
------	------

## with subsets, numbers issues, + conditional rules

---

33.3	42.1	61.1
40.4	50.2	65.3

## with numbers issues, conditional rules, + significant or rules

---

74.4
------

# ordering + grouping games

## basic

---

35.3	56.4	72.4
44.2	70.4	73.2

## with subsets

---

46.2	48.4	60.1	68.3	76.3
47.4	53.4	66.1	69.3	

## with numbers issues

---

33.4	50.4	59.1	67.3
45.2	54.2	62.3	68.2

with significant conditional rules

---

36.3
------

with numbers and subsets

---

29.4	32.1	72.1
31.1	50.3	

## assignment (games with neither ordering nor grouping)

30.1	34.2	44.4	57.3	64.2
------	------	------	------	------