

67

LEVEL BOOK.

No. 410 T

W80

8645
42

19
195
38.5

38.5 19
instead of 74
35
35

MICROFILMED

JAN 6 1965

EUGENE DIETZGEN CO.

Drawing Materials and Surveying Instruments
NEW YORK. CHICAGO. SAN FRANCISCO.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.
DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

Copyright, 1902. No. 39340.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	0
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	1
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	2
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	3
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	6
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	7
8	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	8
9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	10
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	11
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	12
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	13
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	14
15	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	15
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	16
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	17
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	18
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	19
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	20
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	21
22	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	22
23	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	23
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	24
25	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	25
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	26
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	27
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	28
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	29
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	30
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	31
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	32
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	33
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	34
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	35
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	36
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	37
38	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	38
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	39
40	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	40

Calculated by F. E. Paradis, C. E.

Index.

Bench Levels Harvey Ranch to

Minnewawa 2-7-16 Pp 1

Cross Sections of Lower Otay

Damsite 3-29-16 2-13

1 Levels - Up Dulzura Creek
Harvey Ranch To Minnewawa

Mon. Feb. 7-16
Cool & Clear

Kneeshaw - Inst. 1
Bellamy - Rod
Carroll - Notes

Sta	+	H.I	-	Elev
T.P.	5.16	519.16		514.00
T.P. N ^o 1	6.67	524.54	1.29	517.87
T.P. #2	7.49	531.08	0.95	523.59
T.P. #3	7.68	536.86	1.90	529.18
T.P. #4	8.90	540.62	5.14	531.72
T.P. #5	11.78	550.87	1.53	539.09
T.P. #6	2.65	553.29	0.23	550.64
T.P. #7	10.90	558.64	5.55	547.74
T.P. #8	8.12	565.65	1.11	557.53
T.P. #9	12.37	576.94	1.08	564.57
T.P. #10	12.60	588.85	0.69	576.25
T.P. #11	9.17	595.64	2.38	586.47
T.P. #12	9.41	602.07	2.98	592.66
T.P. #13	12.86	613.79	1.14	600.93
T.P. #14	13.09	623.19	3.69	610.10
T.P. #15	8.48	623.77	7.90	615.29
B.M. #16		10.20	613.57	

U.S.G.S. - B.M. 514

On rocks 25' N. Minnewawa Pump

x Sections of Lower Otay Dam site
 cont. from Book page

3-29-16

	0.27	95.67	
	95.94		
A1 1+76		11.6	84.3
A4 1+38		36	92.3
A4 1+48		90	86.9
A4 ^{10' UP} 1+50		76	88.3
A4 4+12		153	80.6
A'9 3+36		64	89.5
A'9 3+44		80	87.9
A'11-2+56		30	92.9
A'11 3+00		10.0	85.9
A'12 3+00		10.0	85.7
	170.	84.55	13.09 82.85
A'12 3+03		8.7	75.9
A'11 3+16		8.5	76.1
A'10 3+34		12.6	72.0
A1 1+90		10.8	73.8
A'9 3+54		14.6	70.0
A2 1+80		50	79.6

$$\begin{array}{r} 1.97 \\ 25.67 \\ 84.55 \\ \hline 11.12 \end{array}$$

$$\begin{array}{r} 13.09 \\ 1.97 \\ \hline 11.12 \end{array}$$

84.55

A ₃ 1+62		00.	84.6
A ₄ 1+59		51	79.5
A'6 3+86		7.9	77.2
A'1 4+25		85	76.1
A'1 4+33		122	72.4
A'2 4+25		66	78.0
A'3 4+25		29	81.7
A'3 4+31		4.9	79.7
	1.13	73.23	124.5
A ₁ 2+00		7.7	66.0
A'1 4+44		90	64.2
A'1 4+52		128	60.4
A ₃ 1+80		11.0	62.2
A ₃ 10' Down 1+85		11.1	62.1
A'2 4+50		10.4	62.8
A'3 4+36		15.5	57.7
A'3 4+50		18.2	55.0
A'5 4+11		9.8	63.4

84.55	124.5
73.23	1.13

✓ 11.3 ✓ 41.32

	73.23		
A'5 4+00		95	637
A'7 3+80			75.6
A'7 3+94		104	628
A'11-3+26		90	64.2
	067	61.73	12.17
A'12+08		4.7	57.0
A'12 3+34		60.	55.7
A'2 2+00		35	58.2
A'12 3+37		10.3	51.4
A'11 3+40		83	53.4
A'3 1+97		70.	54.7
A'3 1+99		14.0	47.7
A'10 3+63		1.18	49.9
A'4 1+63		60	557
A'9 3+67		73	54.4
A'8 4+01		130	48.7
A'7 4+10		130	487
A'6 4+20		120	497

73.23	12.17
61.73	07
11.50	11.50

	61.67		
A'2 4+51		93	52.4
	052	49.38	12.81 48.86
A'2 2+40		11.8	37.6
A'2 2+20		7.2	42.8
A'1 4+70		13.6	35.8
A'4 2+04		13.0	36.4
A'4 1+87		4.7	44.7
A'4 4+24		10.2	39.2
A'5 4+20		9.8	39.6
A'6 4+03		6.8	49.4
A'8 4+02		10.4	39.0
A'9 3+80		8.6	40.8
A'10 3+63		0.2	49.2
A'11 3+52		5.0	44.4
A'12 5+97		6.0	43.4
A'11 3+58		13.6	35.8
A'12 3+53		5.1	44.3
A'12 3+58		10.8	38.6

052	61.67	12.81
	49.38	52
	12.29	12.29

X

4938

A'11 5+96		100	394
A'10 6+20		70	424
A'10 6+10		80	414
A'9 6+74 ^② 35	6+39 correct	17	47.7
	150	38.50	1238 37.00
A'11 3+50		28	35.7
A'7 6+40		76	30.9
A'10 3+76		43	34.2
A'9 3+82		40	34.5
A'8 6+28		107	27.8
A'9 4+00		73	31.2
A'9 6+04		105	28.0
A'9 6+19		41	34.4
A'7 4+13		64	32.1
A'10 5+91		102	28.3
A'11 5+78		90	29.5
A'12 5+64		98	28.7
A'4 4+39		70	31.3
	1.50	49.38 38.50	12.38 1.50
		108.8	110.88

A'	3850			
A'4 4+50		83	30.2	
A'3 4+53		86	29.9	
A'3 4+73		71	31.4	
A'4 -2+17		118	26.7	
A3 2+38		41	34.4	
A'2 4+75		65	32.0	
A1 2+40		82	38.3	X
A1 2+42		70	31.5	
A2 2+41		38	34.7	
A2 2+42		30	29.5	
A'1 4+70		28	35.7	X
A'1 4+83		75	31.0	
A'1 4+83 ^{twice}		118	26.7	
	2.53	2890	1213	26.37
A1 2+50		11	27.8	
A1 2+58		84	20.5	
A'1 4+93 =		94	19.5	
A1 3+88				

2.53 3850 1213
 2890 253
 260 960

4+69
150
6.23

NB

2890

A'2+60		95	19.4
A'2 4+92 =		89	20.0
A'2 3+77			
A'2 2+53		84	20.5
A'2 2+57		96	19.3
A'3 4+75		40	24.9
A'3 4+79.6		5.2	28.7
A'3 3+72			
A'3 3+67		90	19.9
A'3 2+63		96	19.3
A'4 4+70 =		90	19.9
A'4 3+56			
A'5 4+69		100	18.9
A'4 2+40		96	19.3
A'4 2+34		96	19.3
A'6 4+45		91	19.8
A'7 4+29		92	19.7
A'5 6+23		8.1	20.8

28.90

A'8 4+35	10.1	18.8
A'6 6+27	84	205
A'9 4+14	7.3	216
A'9 4+16	102	18.7
A'7 6+18	63	226
A'7 6+15	98	19.1
A'10 4+20	92	19.7
A'10 4+24	103	18.6
A'8 6+26	100	18.9
A'11 3+88	64	22.3
A'11 3+93	102	18.7
A'9 5+82	100	18.9
A'12 3+91	60	22.9
A'12 3+95	103	18.6
A'10 5+65	101	18.8
A'10 5+70	70	21.9
A'11 5+43	100	18.9
A'11 5+48	60	22.9

219

2890

A' 12 5+38

8.6 20.3

A' 12 5+30

100 18.9

A' 12 5+40

64 22.5

1290 39.61 2.19 26.71

10' UP
A' 6 6+55

5.4 34.2

A' 6 15' UP
6+70

40 35.6

1274 51.51 0.84 38.77

A' 6-6+70

11.1 40.4

A' 6-7+00

2.6 48.9

A' 5 6+62

5.4 46.1

A' 5 7+15

6.5 45.0

A' 5 7+40

40 47.5

A' 6 15' UP
7+00

7.1 44.4

1280 64.14 0.17 51.34

A' 9 6+90[Ⓟ]
35

6+55 correct 100 54.1

A' 5 7+52

48 59.3

A' 9 7+08[Ⓟ]
35

6+73 correct 21 62.0

A' 5 7+65

70 57.1

3844 6414
320 2890

3.20

3524 3524

107

64.14

A'6 7+52

104 537

A'10 6+42

16 625

A'6 7+40

130 53.1

A'6 7+17

107 534

A'10 6+69

109 532

A'7 7+04

40 601

A'11 6+32

42 599

A'12 6+15

100 54.1

680

69.19

175 62.39

A'12 6+25

65 627

A'12 6+43

84 60.8

A'7 7+35

137 53.5

A'7 7+39

142 55.0

A'8 7+32

94 59.8

A'8 7+17

50 64.7

A'11 6+70

10 68.2

A'8 7+03

48 64.3

A'11 6+85

04 68.8

680
175
505

69.19
64.14
50.5

175

6919

A	A' 11	6+95	42	65.0
A	A' 9	7+50 (9) 7+15 correct.	65	62.7
A	A' 9	7+40 (2) 7+05 correct.	46	64.6
A	A' 11	10' Up 7+12	11.1	58.1
A	A' 10	7+42	102	59.0
A	A' 10	7+31	32	63.0
A	A' 10	6+92	65	62.7
A		1240	79.29	2.20
	A' 12	6+57	70	72.3
A	A' 12	6+62	32	76.1
A	A' 12	6+68	38	75.5
A	A' 11	15' Down 6+85	13.0	76.3
A		1300	92.04	0.25
A	A' 12	6+69	110	81.0
A	A' 12	6+82	30	89.0
A	A' 12	6+90	00	92.0
A	A' 12	7+02	Hand Level	100.0

2540

9204

255

255

6919

2385

2285

573 153.44 147.71

B₈ 0+00 36 49.8

B₇ 0+00 39 49.5

B₃ 0+00 37 49.7

B₈ 0+37 63 47.1

B₈ 1+17 125 40.9

B₃ 0+17 35 43.9

B₇ 0+55 32 50.2

B₃ 0+30 10.1 43.3

B₇ 1+10 64 47.0

B₇ 1+20 120 41.4

B₄ 0+35 80 45.4

B₄ 0+00 50 48.4

B₆ 0+55 57 47.7

B₅ 0+00 21 51.3

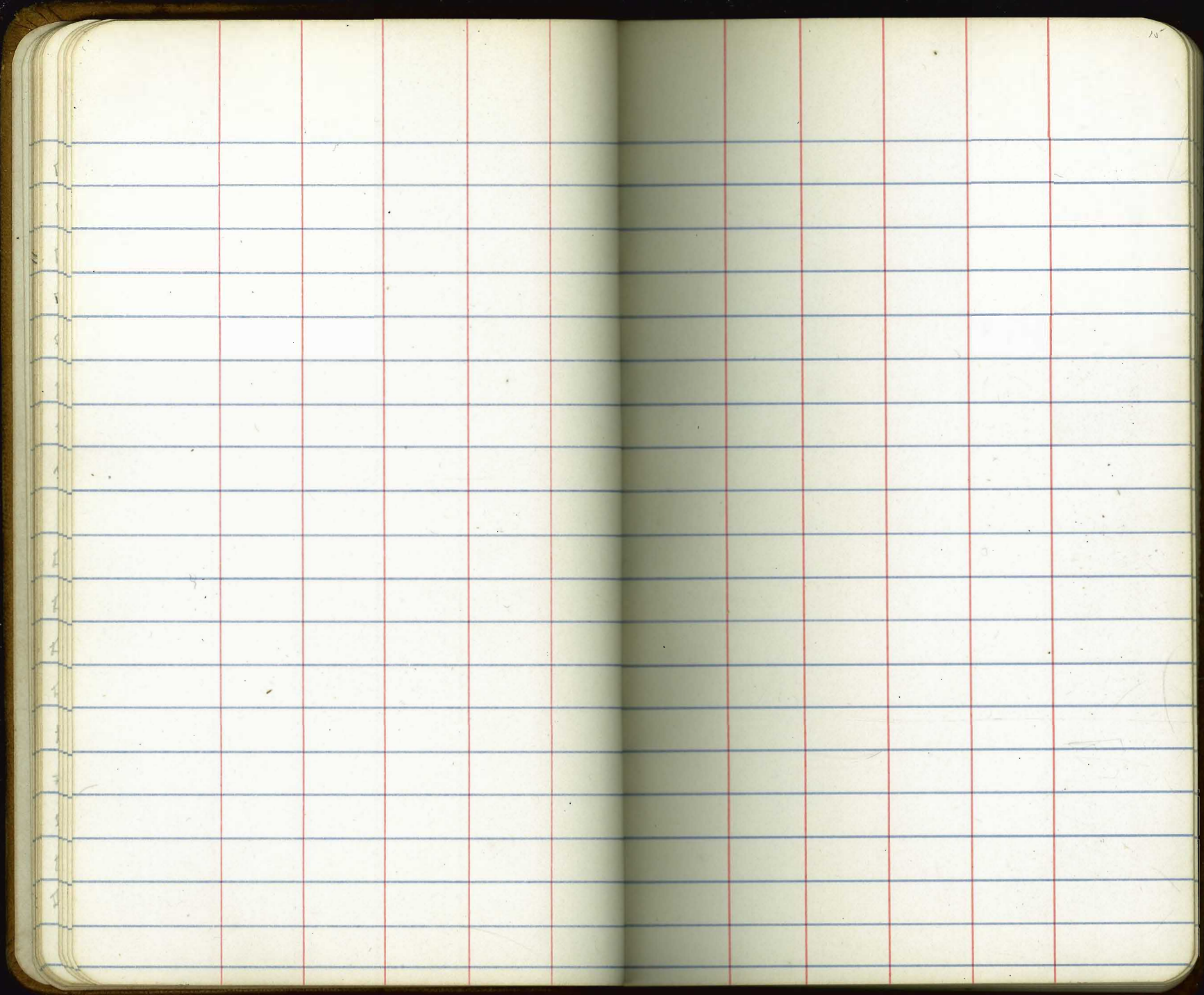
B₆ 0+00 09 52.5

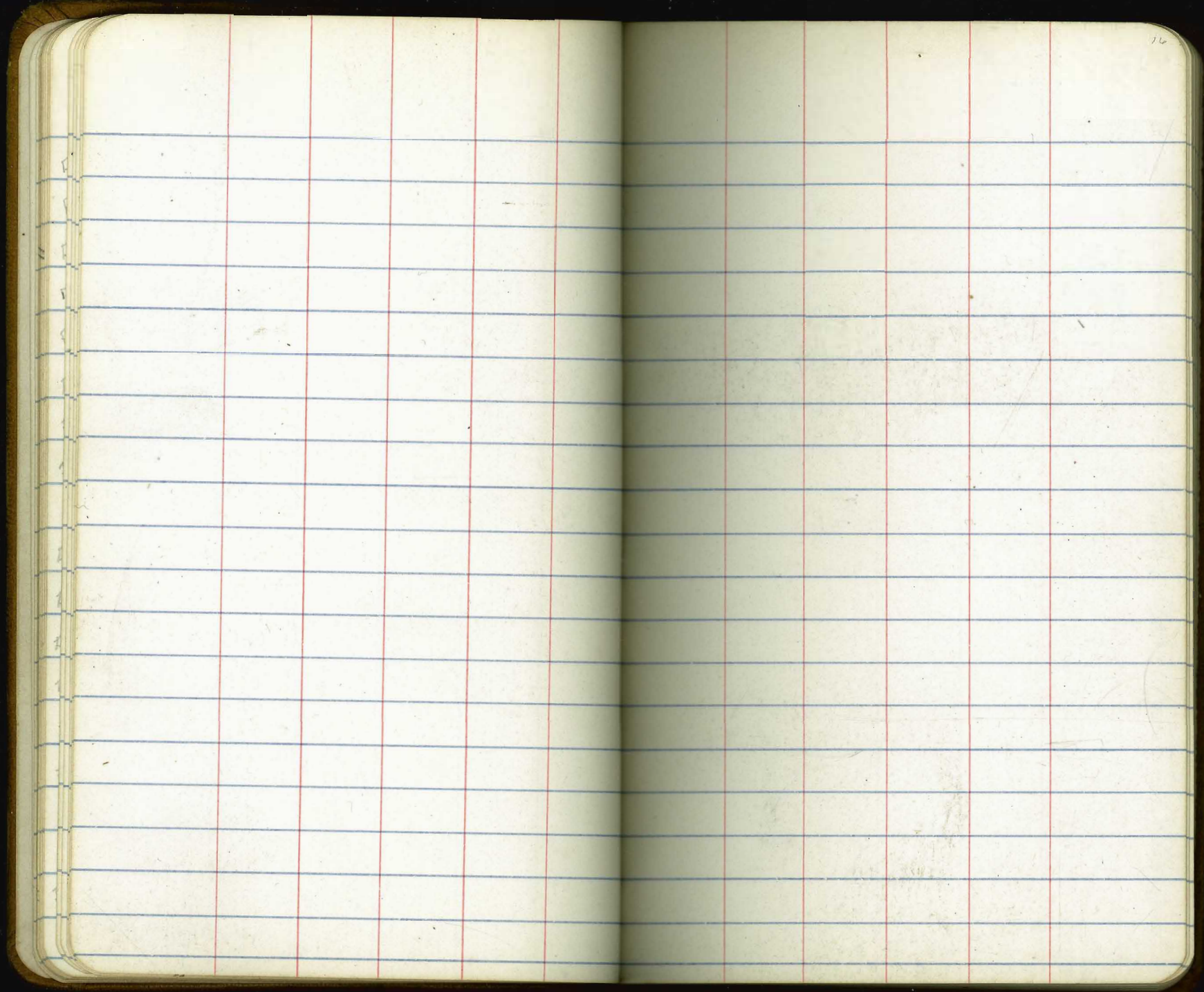
B₅ 0+38 58 47.6

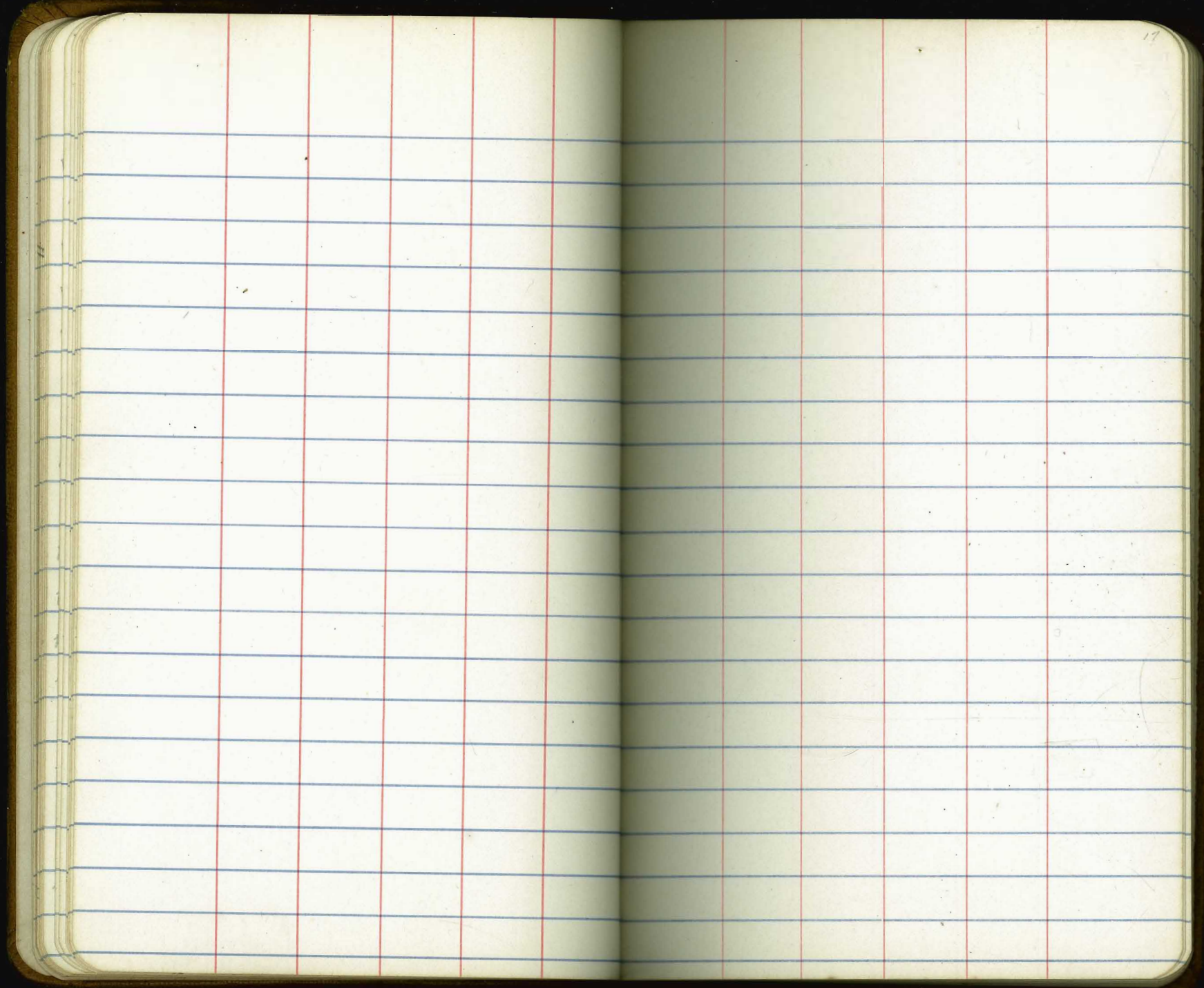
B₆ 0+15 32 50.2

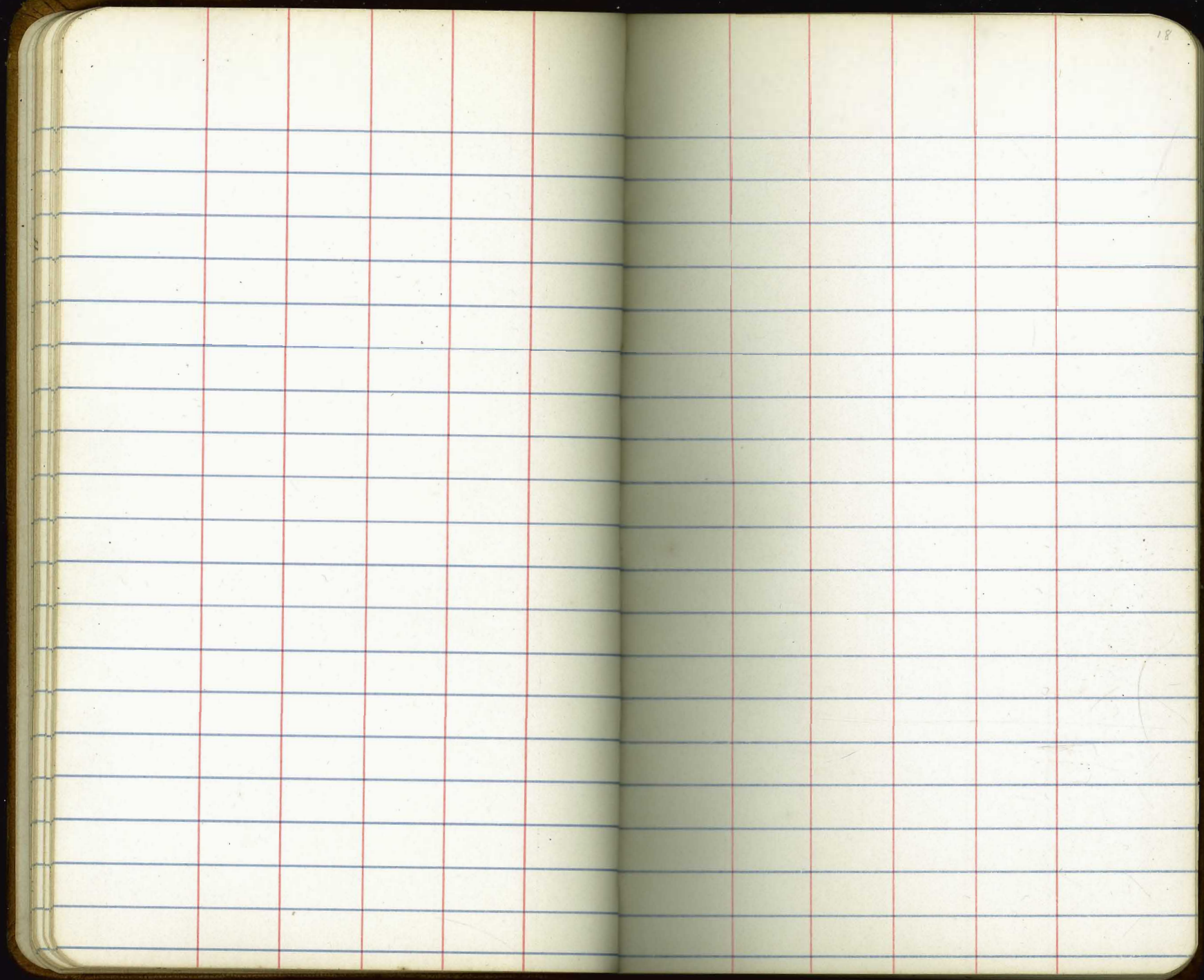
12.44 141.00

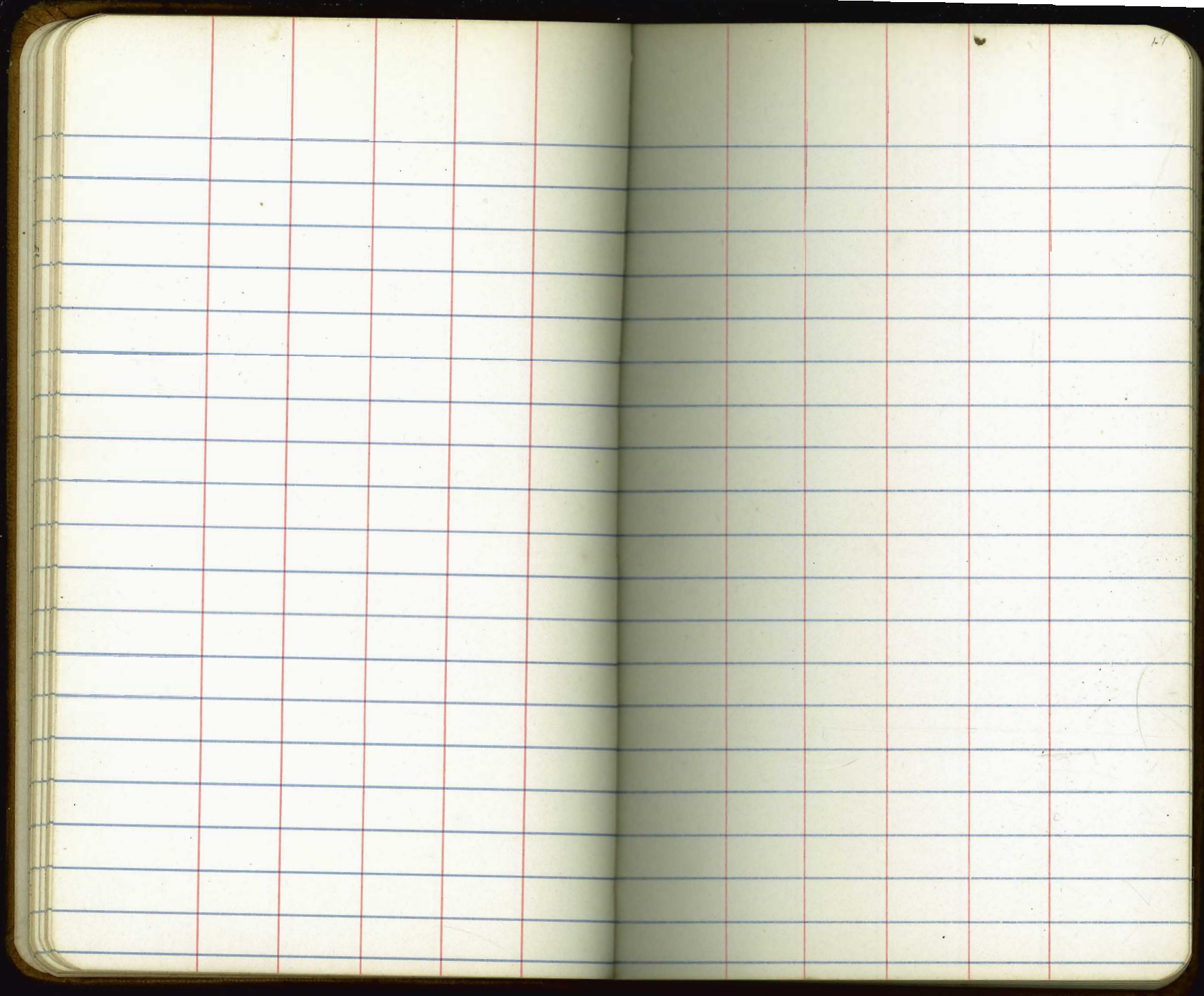
The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines, creating a ledger-style layout. There are 10 columns and 20 rows on each page. The notebook is bound in the center, and the dark brown cover is visible at the edges. The page number '14' is written in the top right corner of the right page. The pages are otherwise blank.

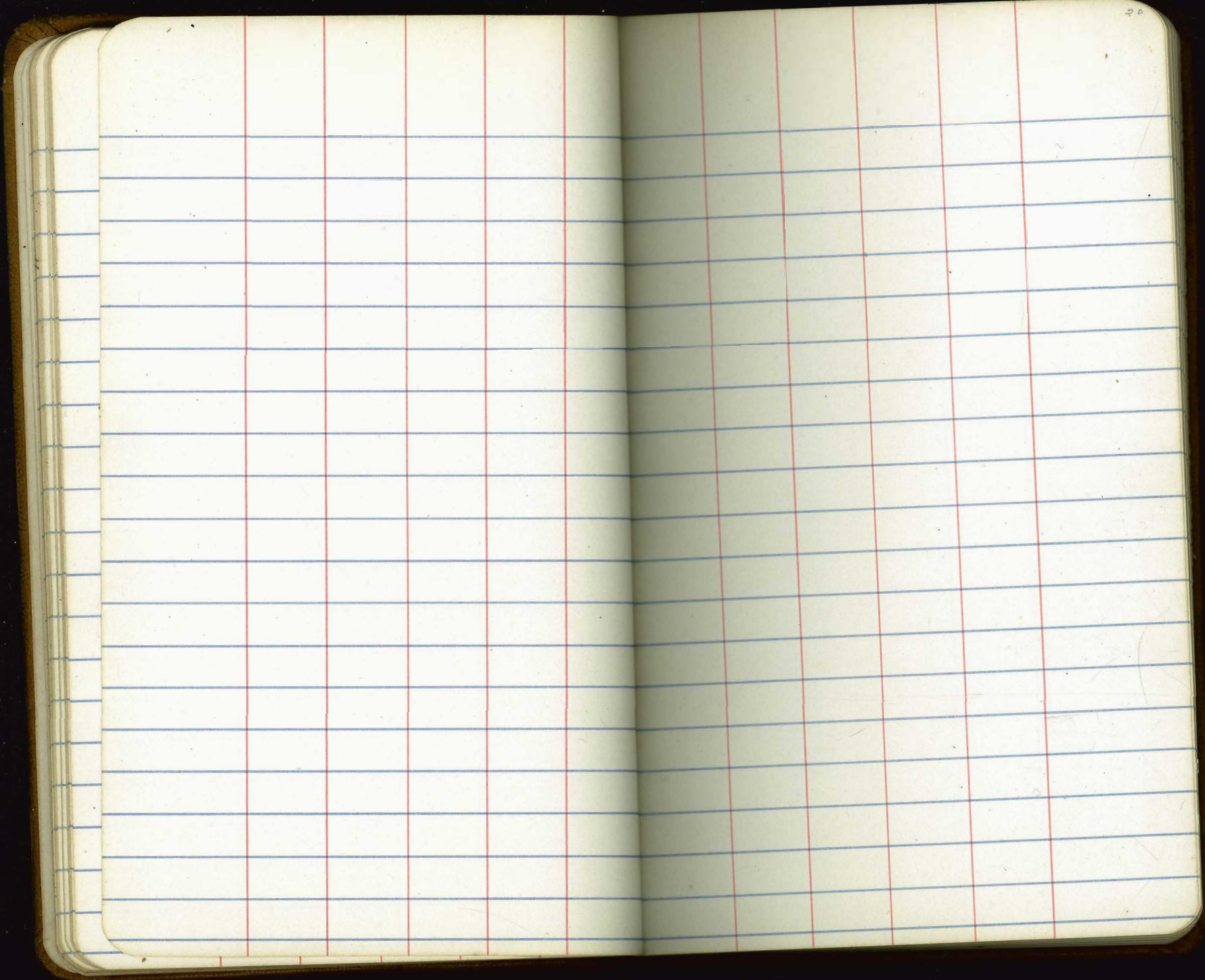


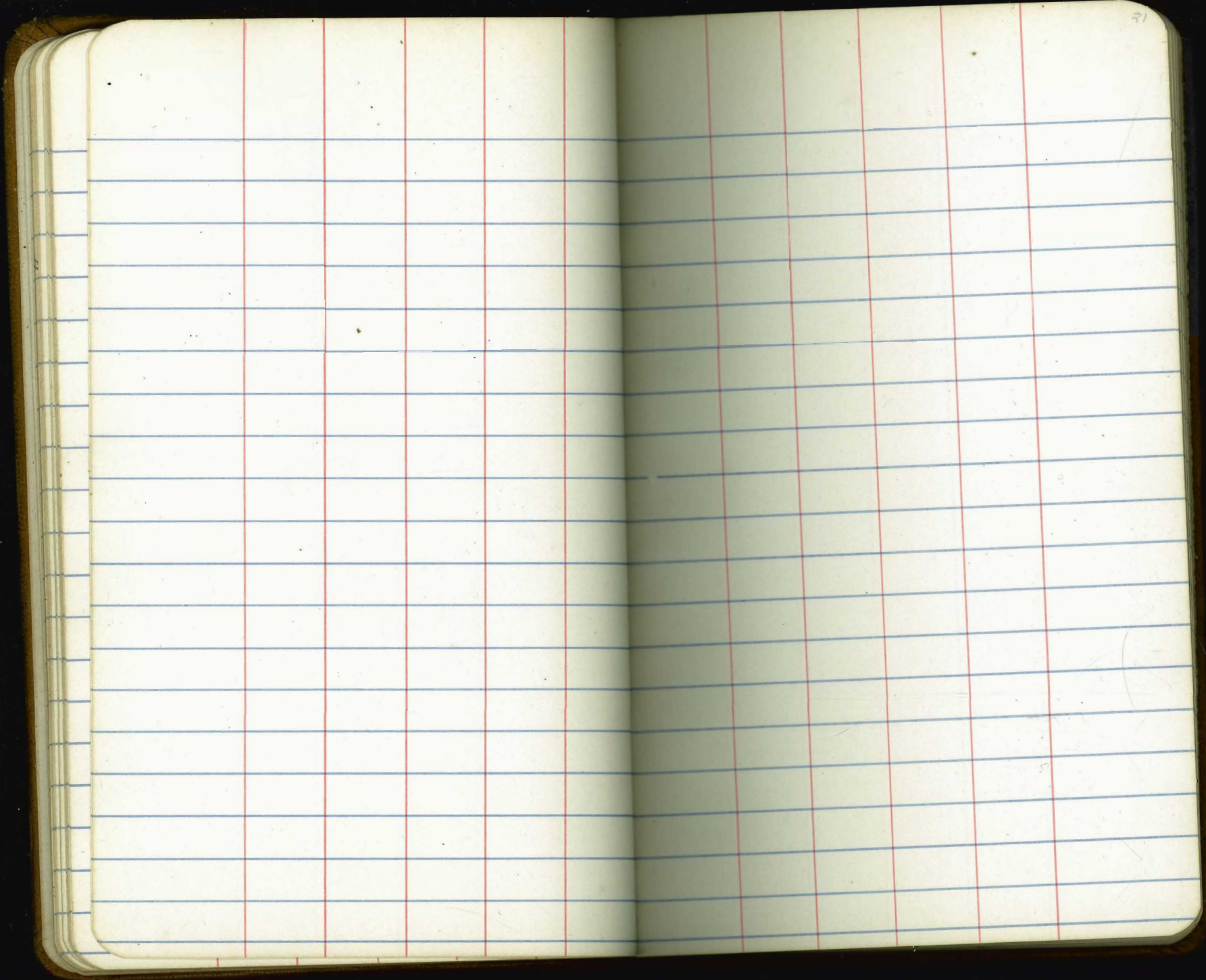


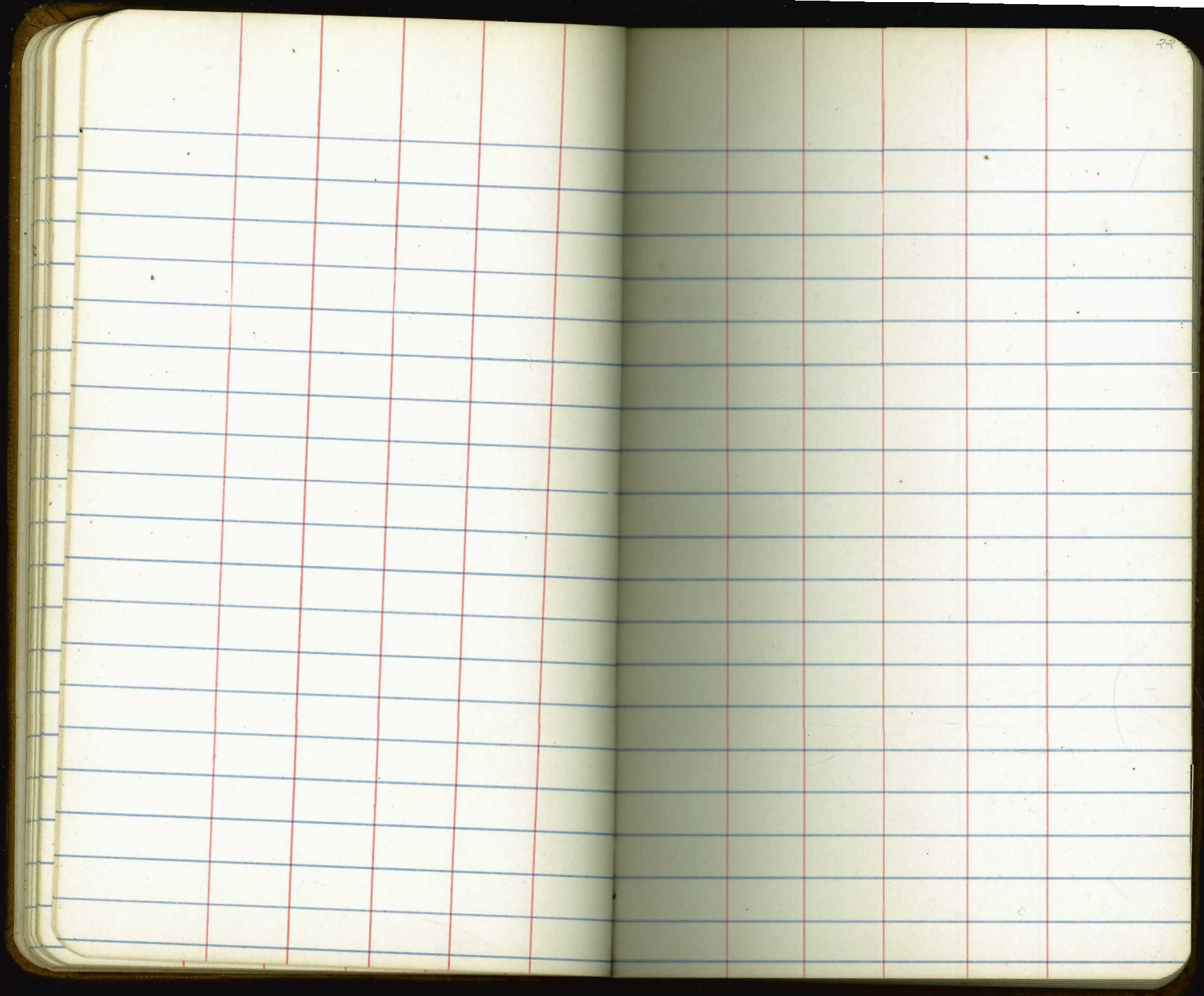


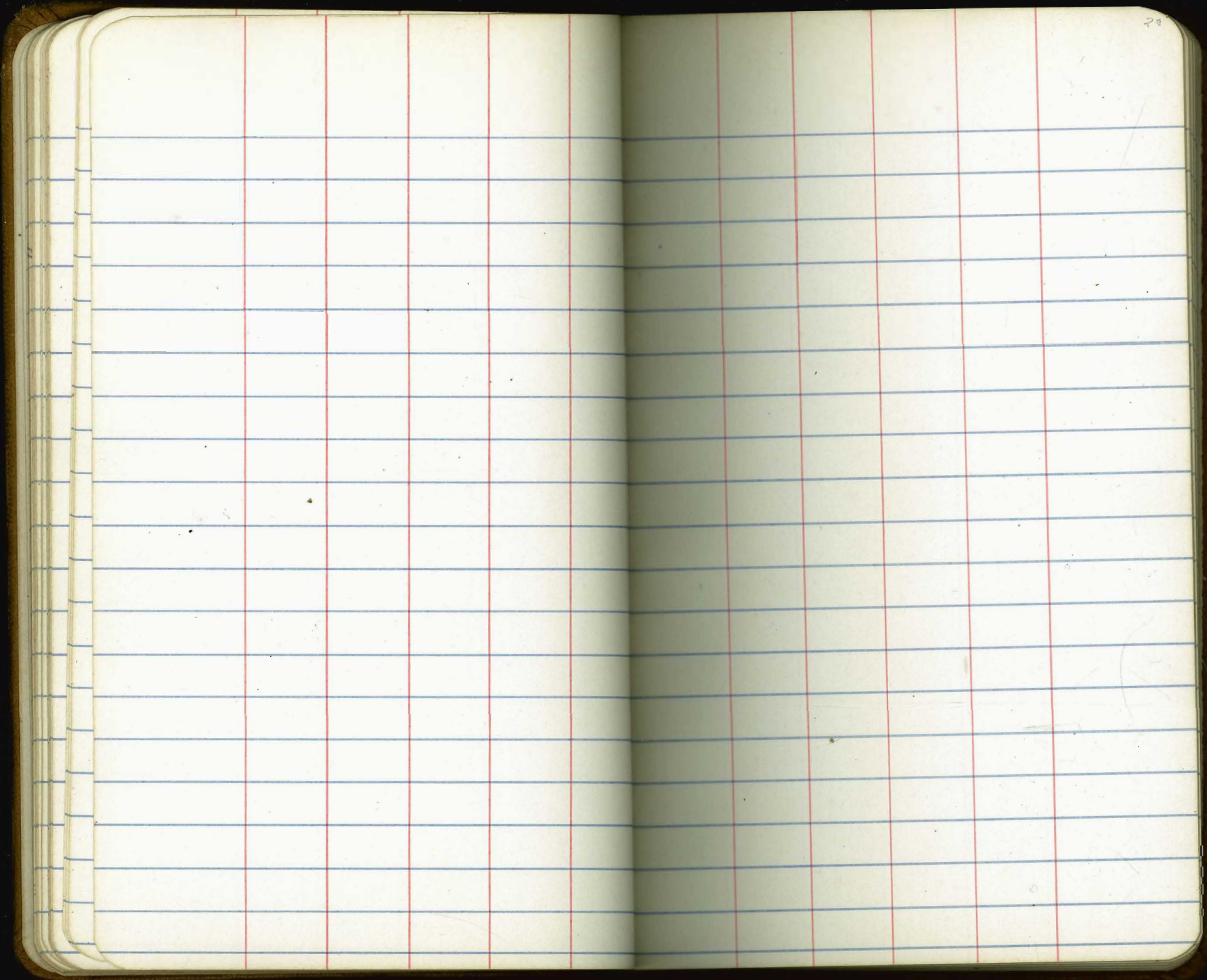




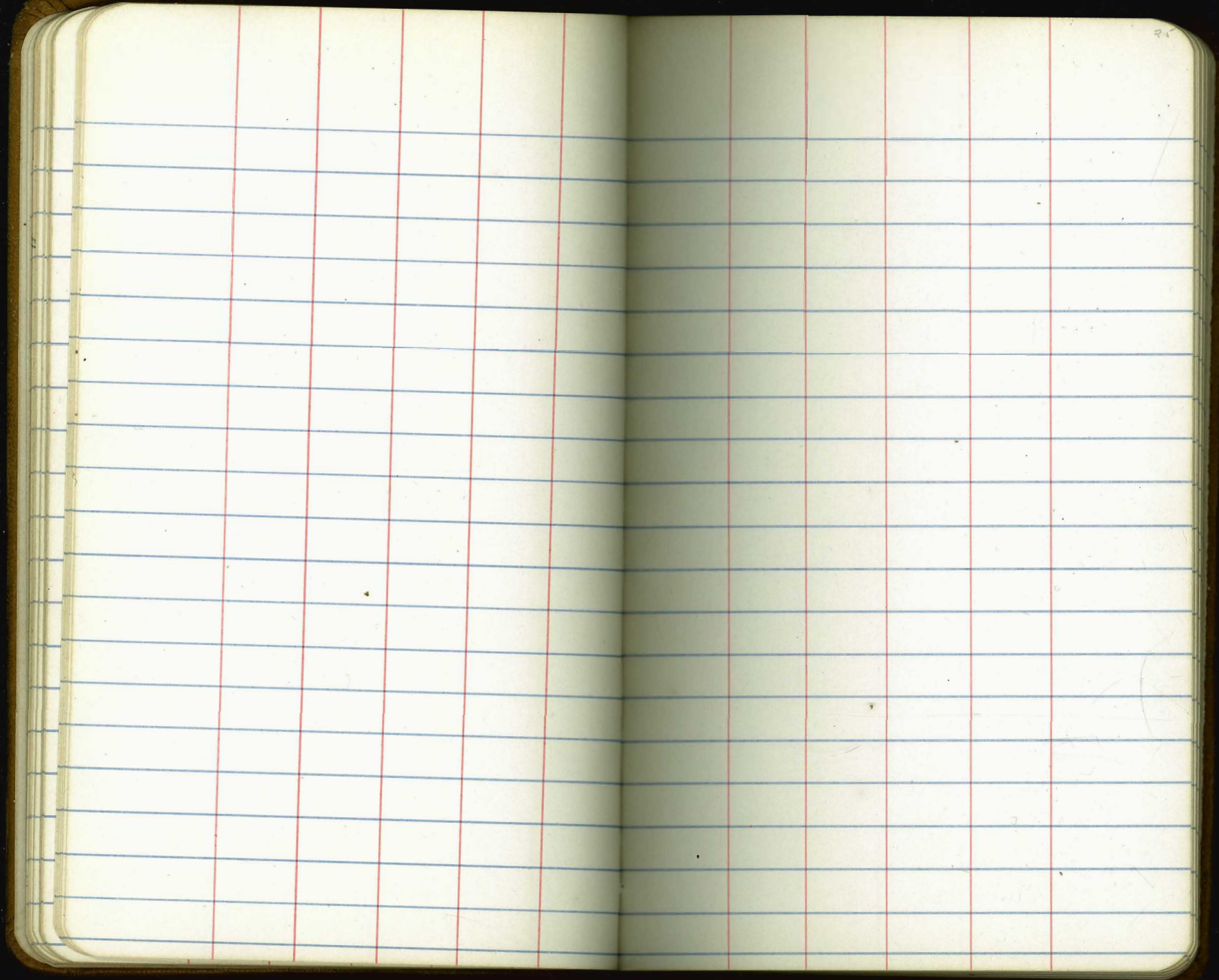


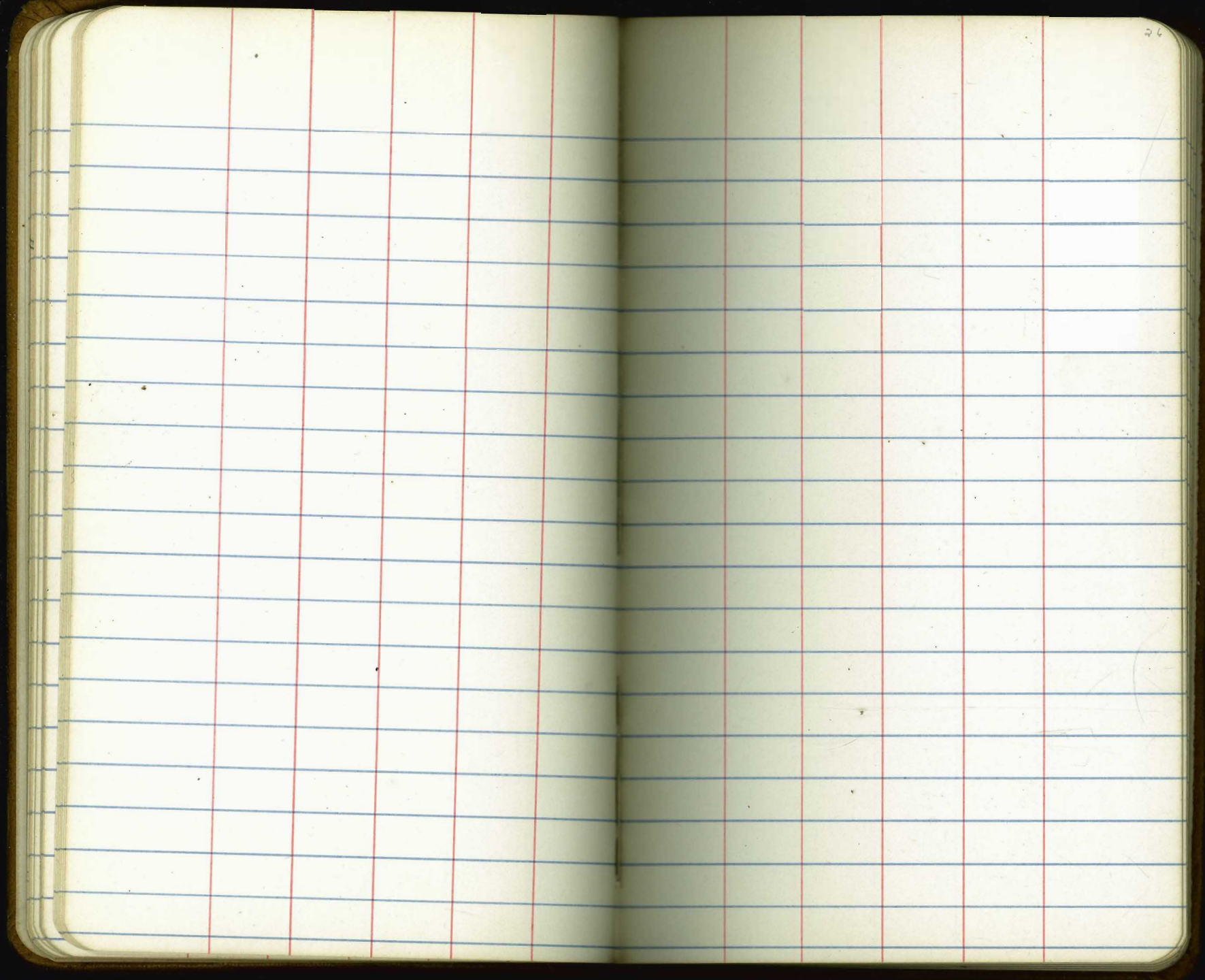


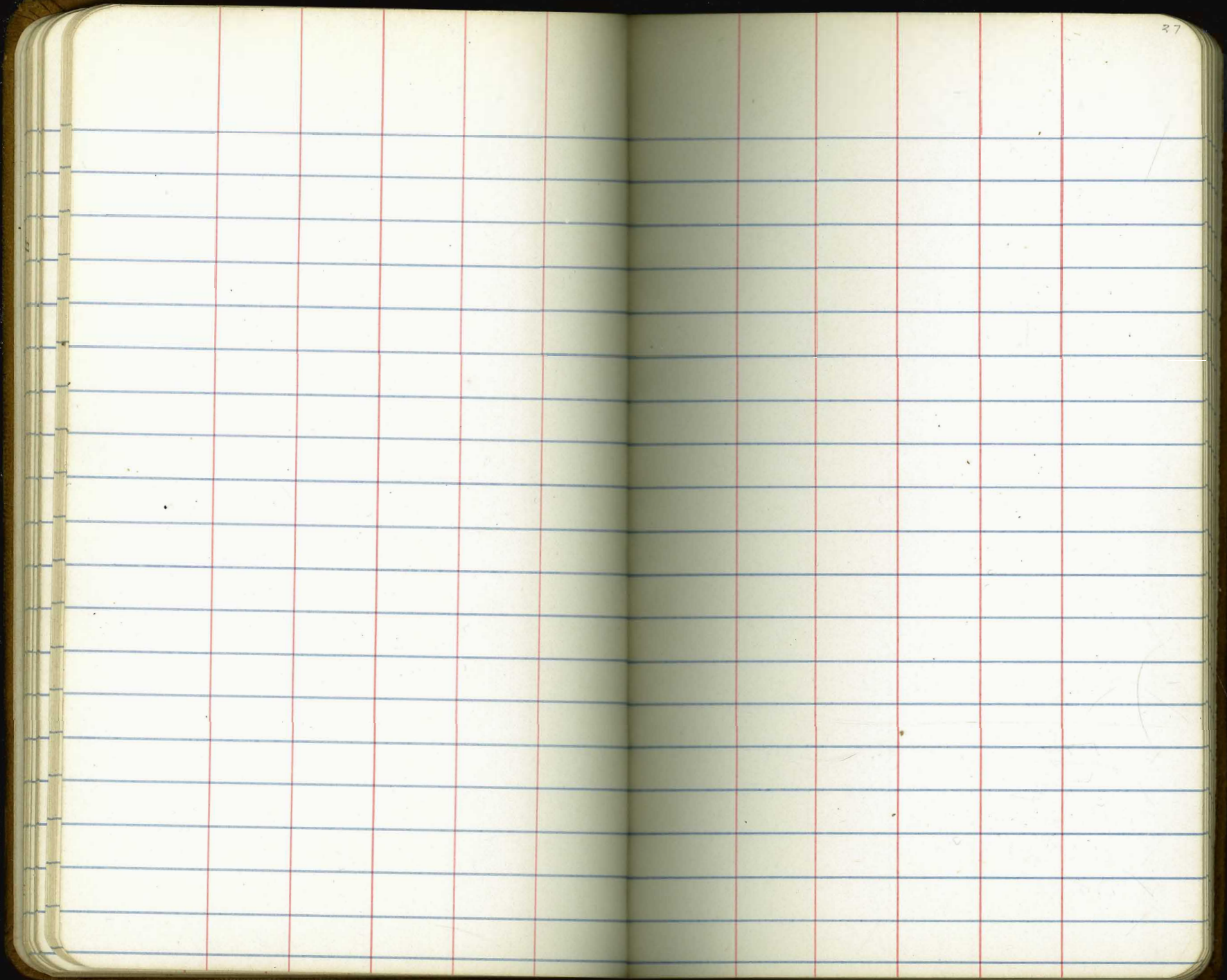


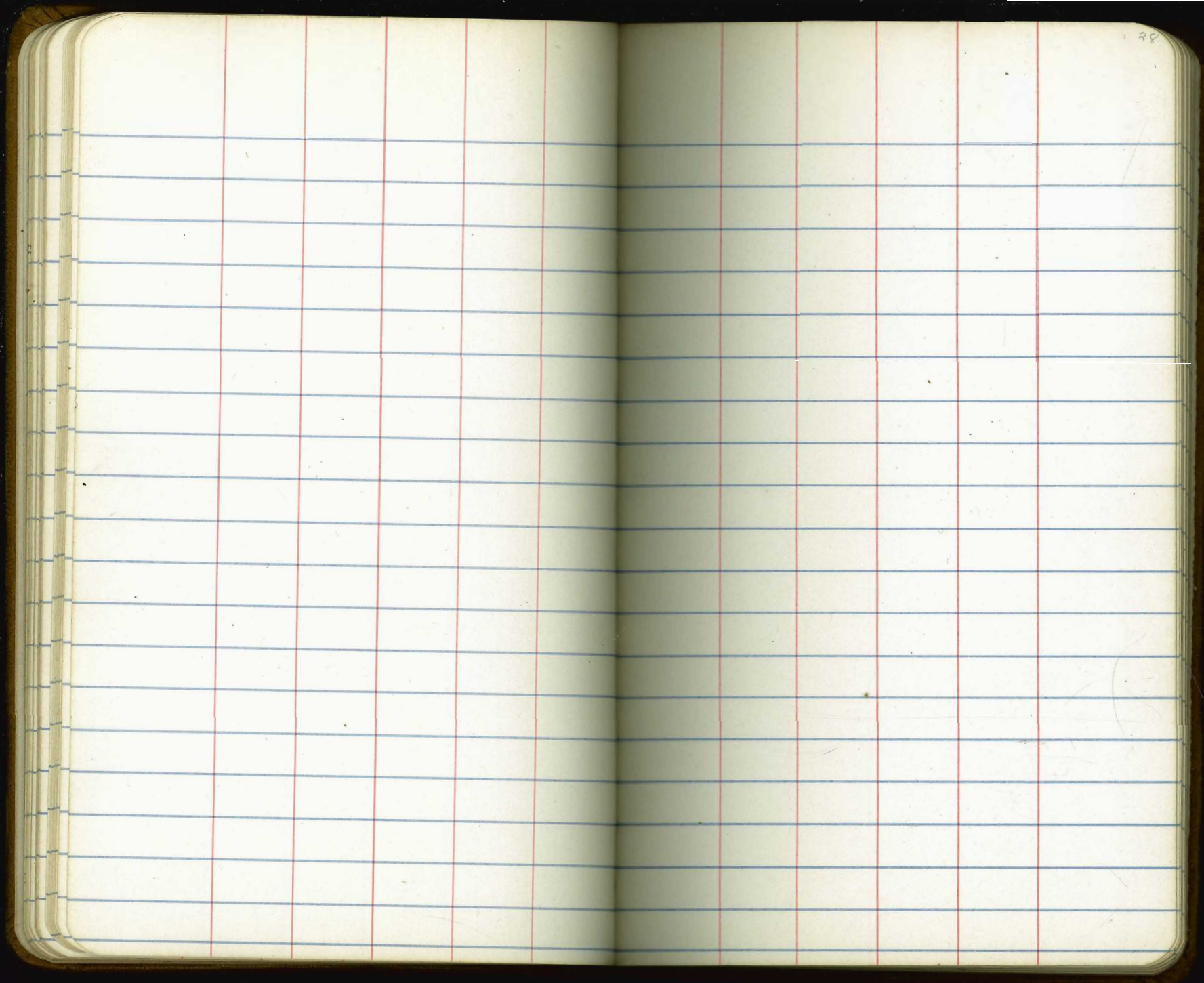


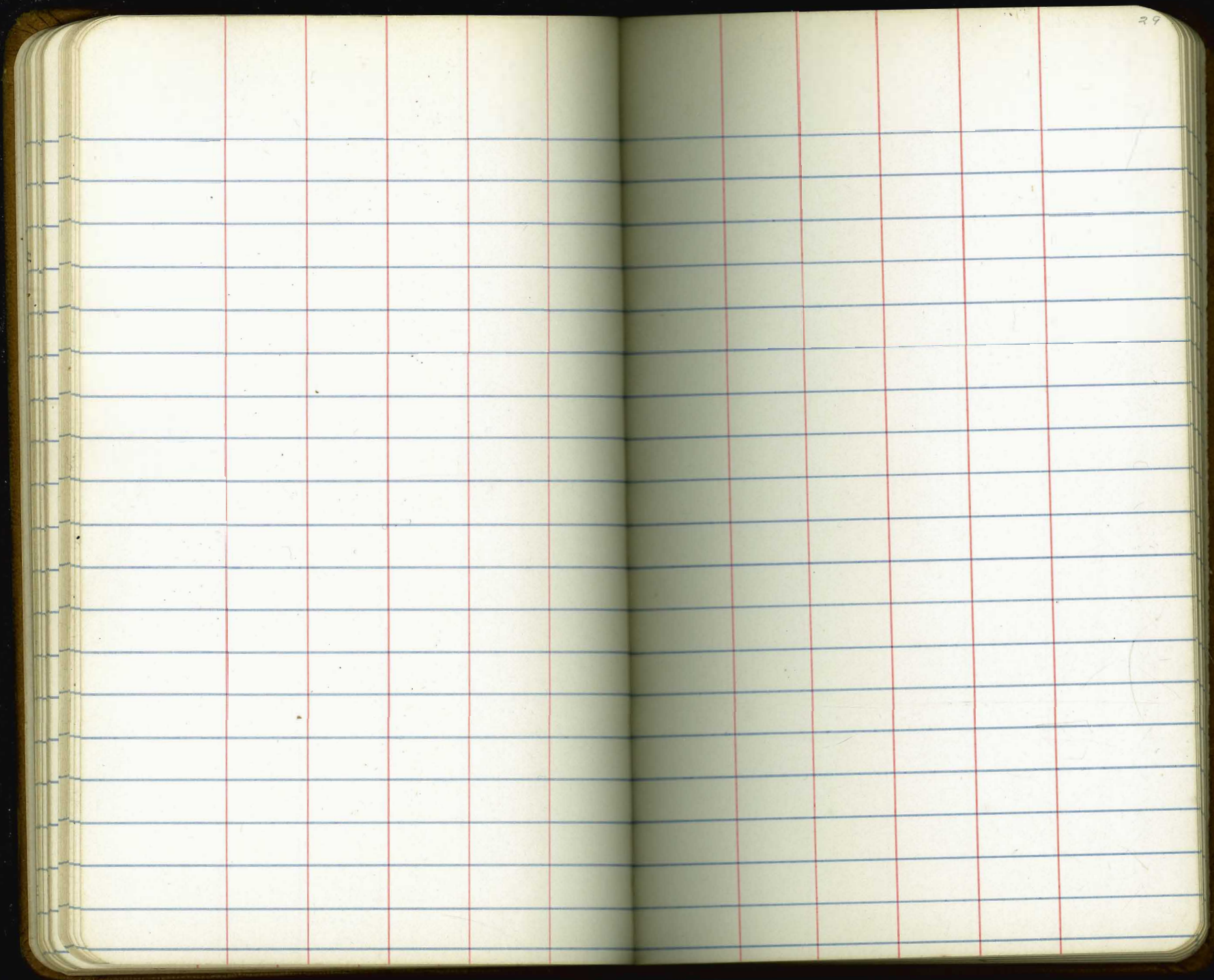
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on the left and one on the right, creating a central column and two side columns. The pages are otherwise blank, with no handwriting or printed text. The notebook's dark cover is visible at the edges, and the number '34' is printed in the top right corner of the right page.



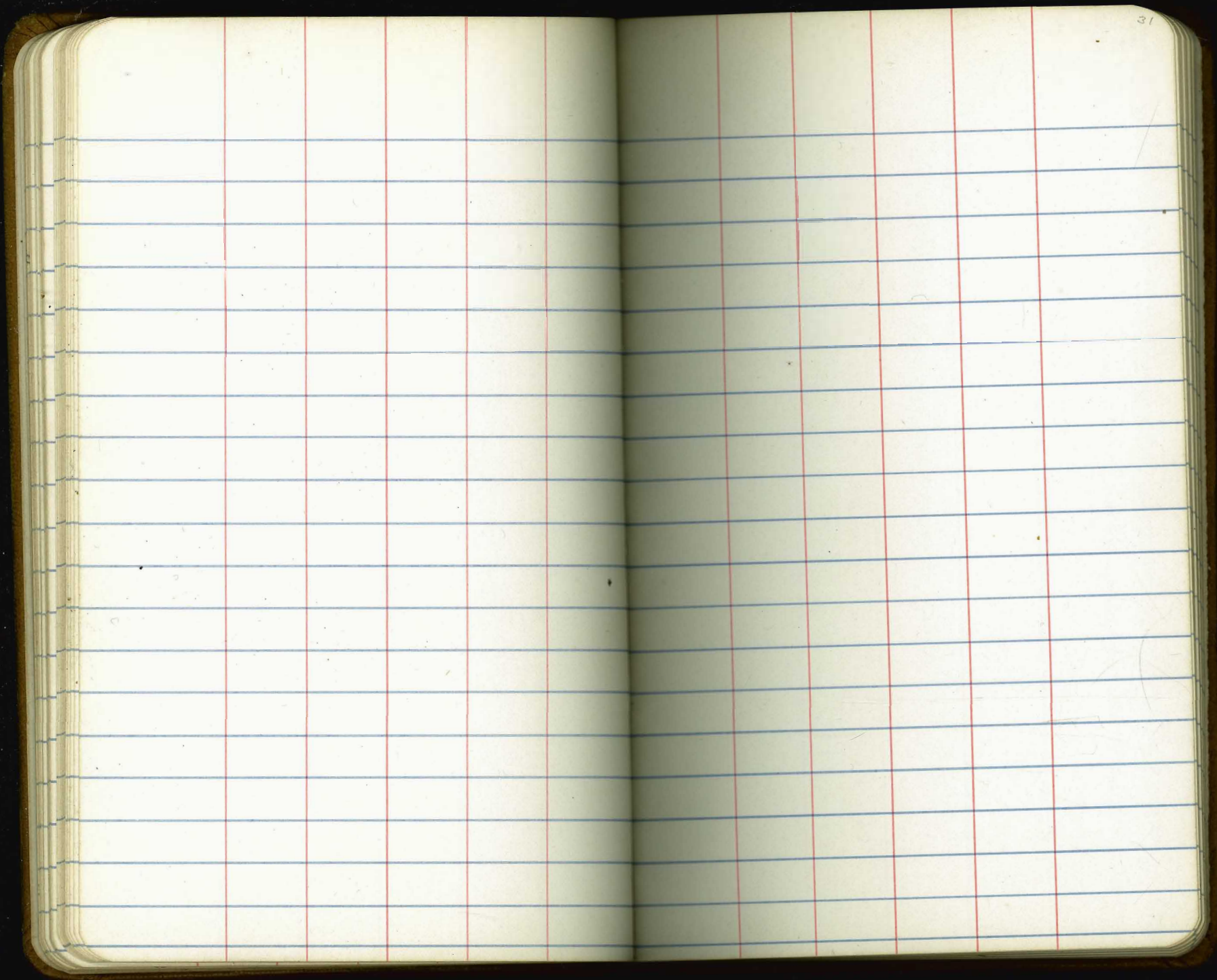


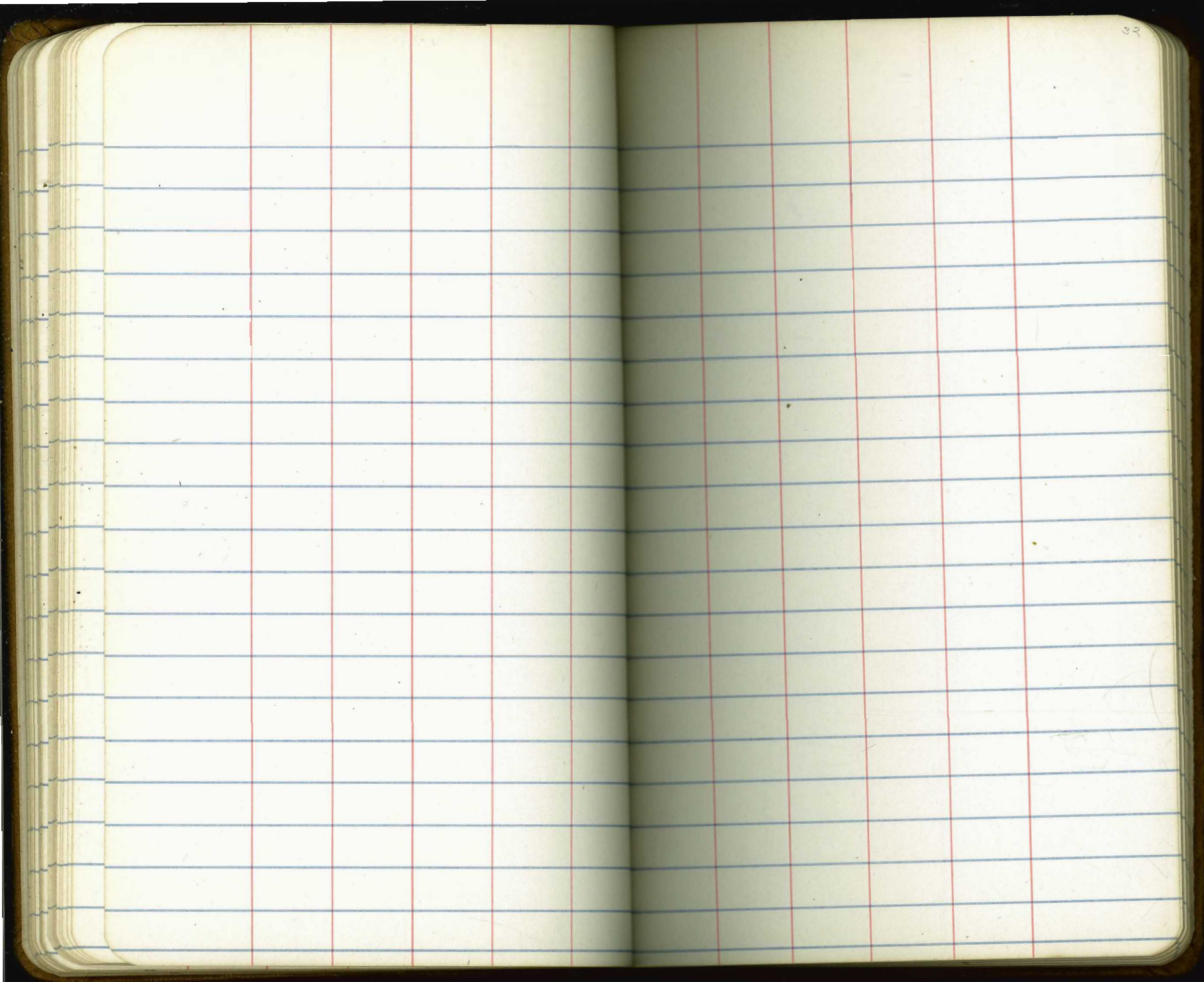


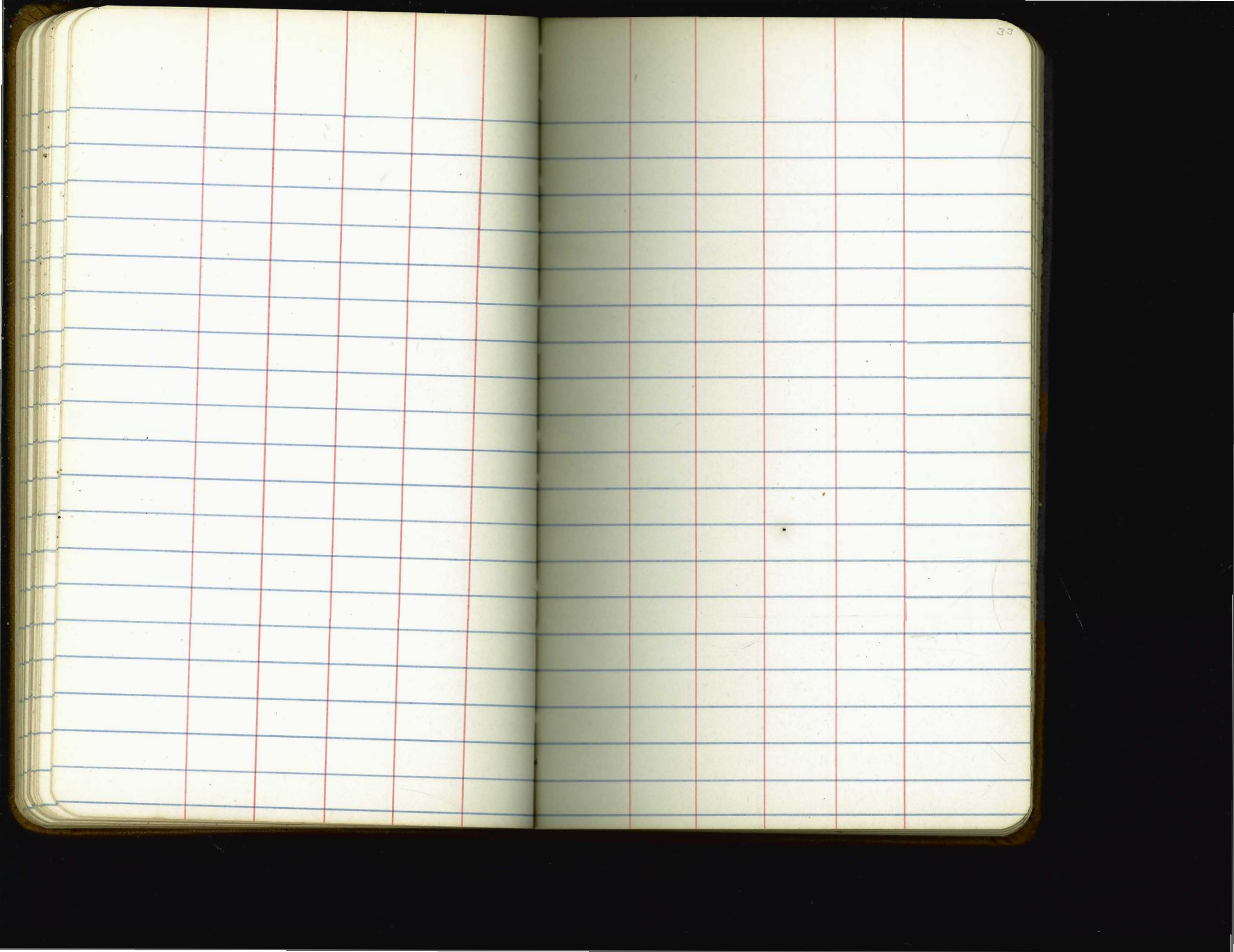




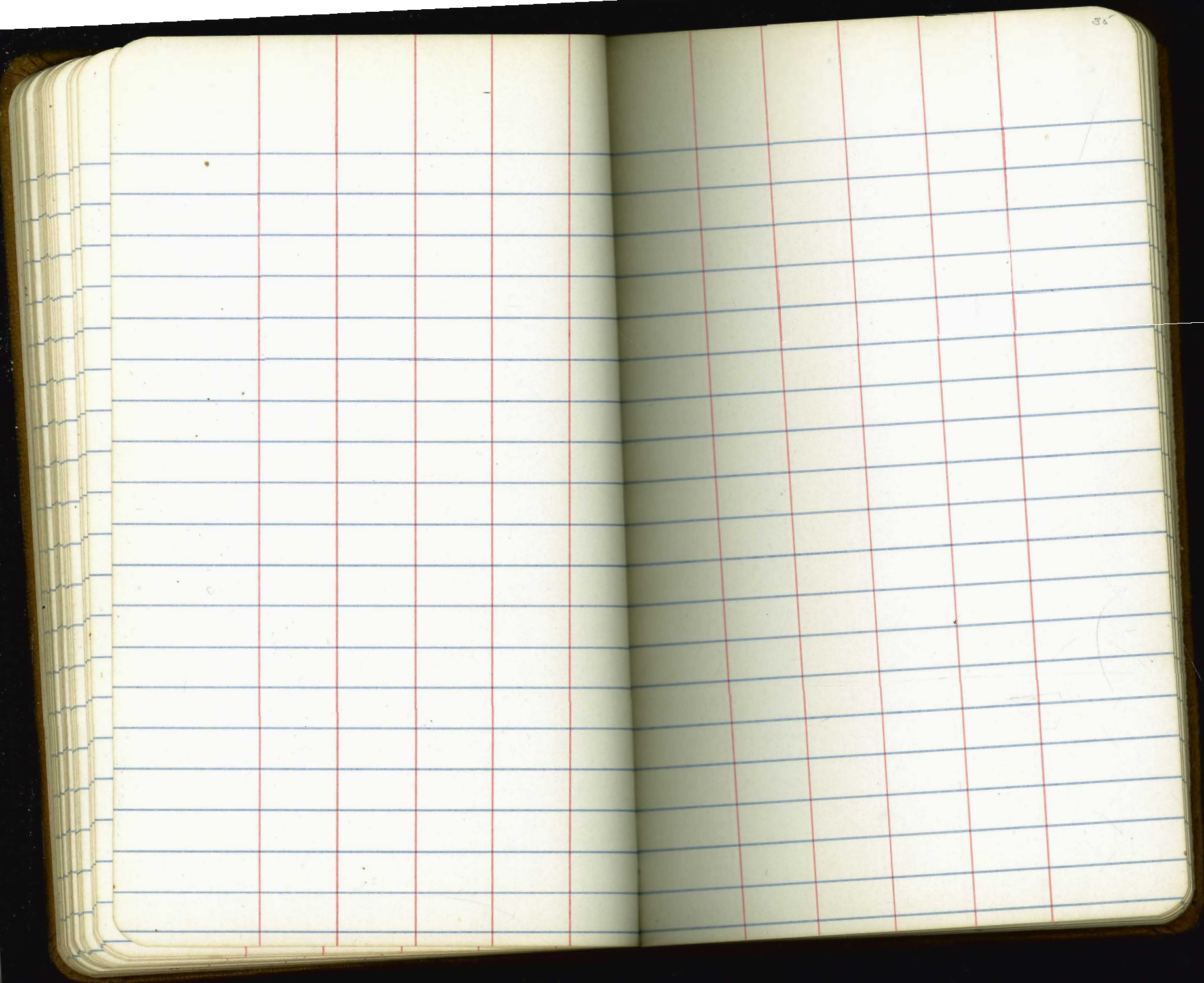
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature horizontal blue lines for writing. Each page is also ruled with vertical red lines, creating a grid of columns. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with only a few faint smudges and a small number '30' in the top right corner of the right page.







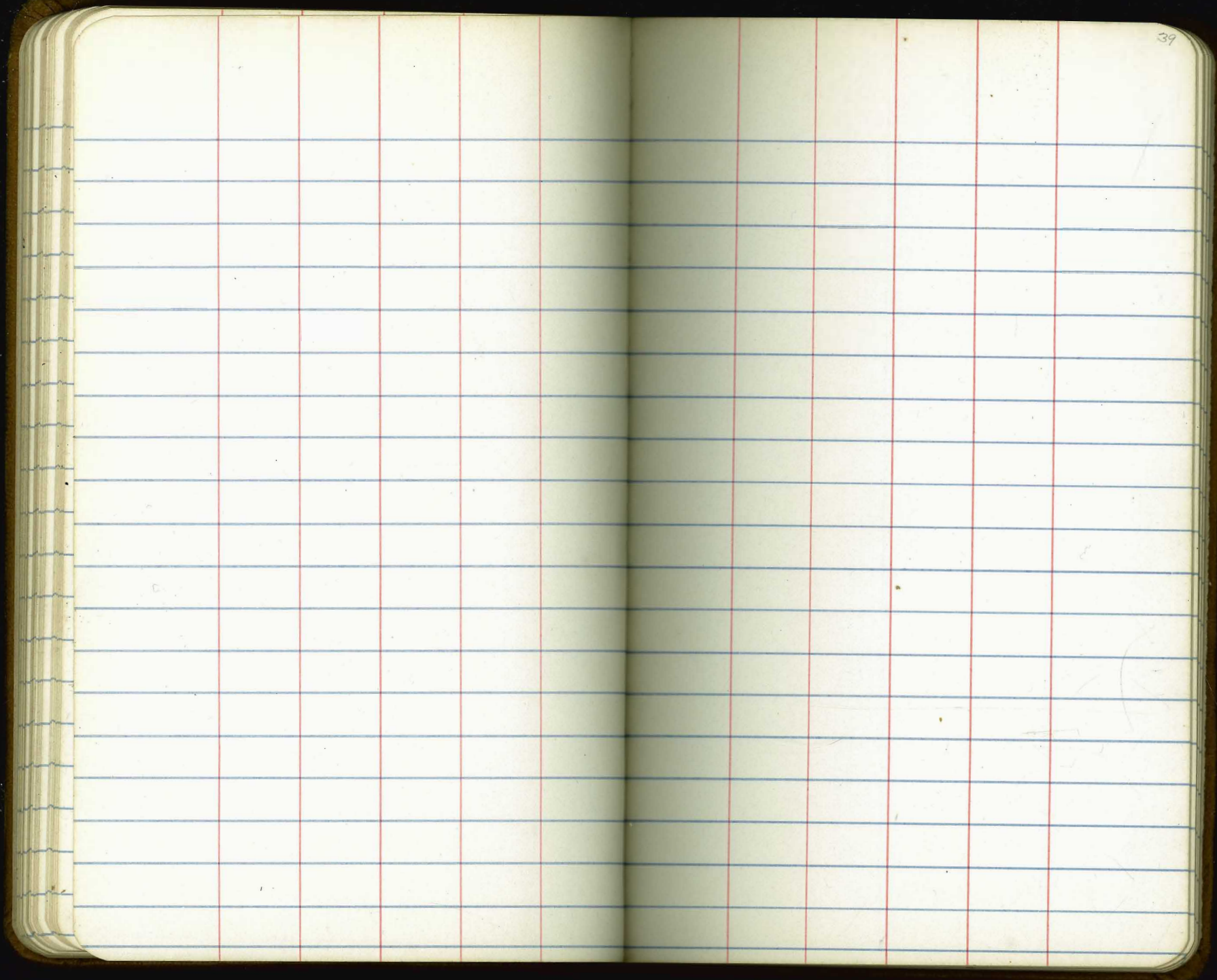
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page is divided into two columns by a vertical red margin line. The right page has the number '34' printed in the top right corner. The notebook is bound in the center, and the edges of the pages are visible on the left side.

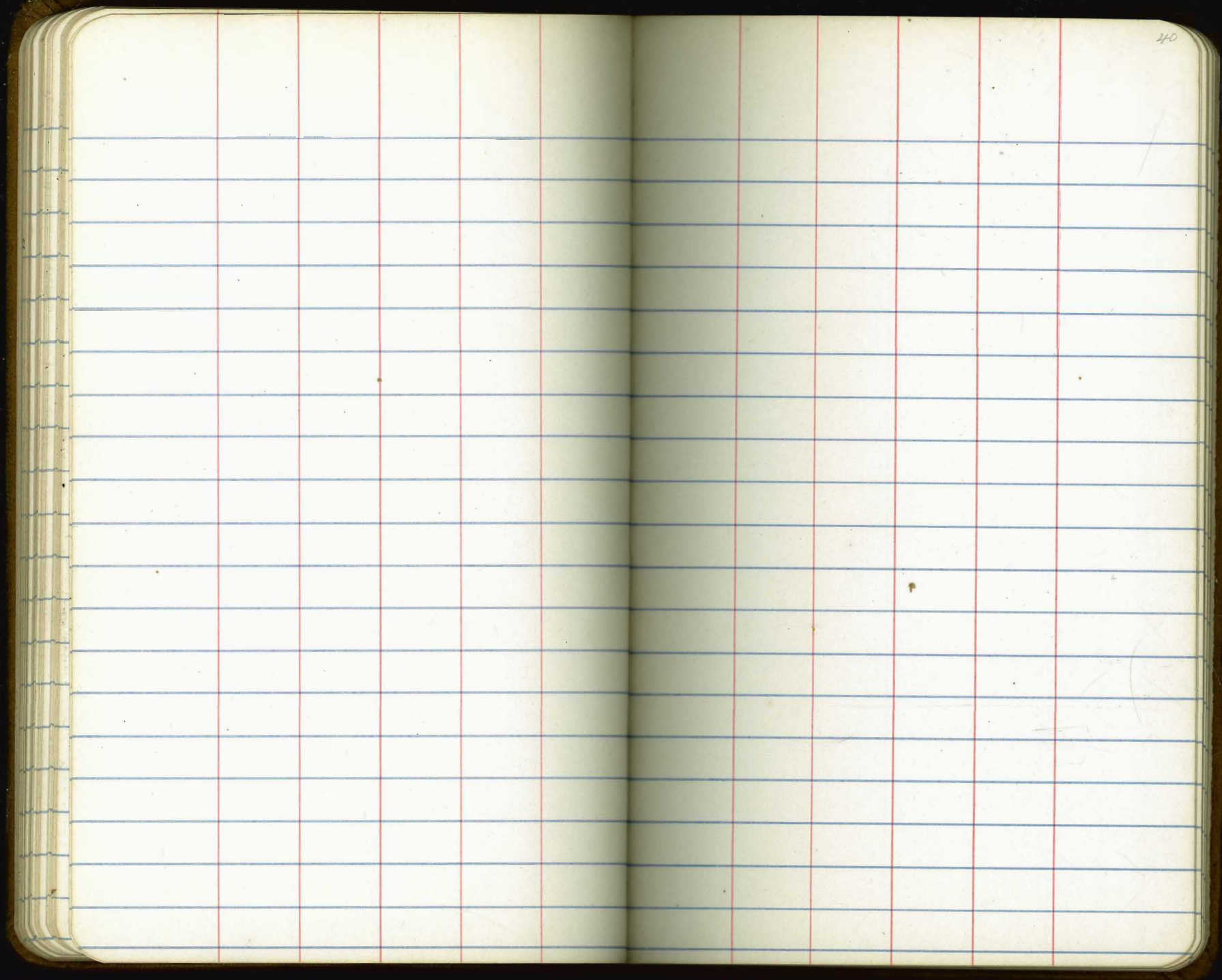


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Red vertical lines are drawn to create margins on both the left and right sides of each page. The notebook is bound in the center, and the dark brown cover is visible at the edges. The pages are otherwise blank, with no writing or markings.

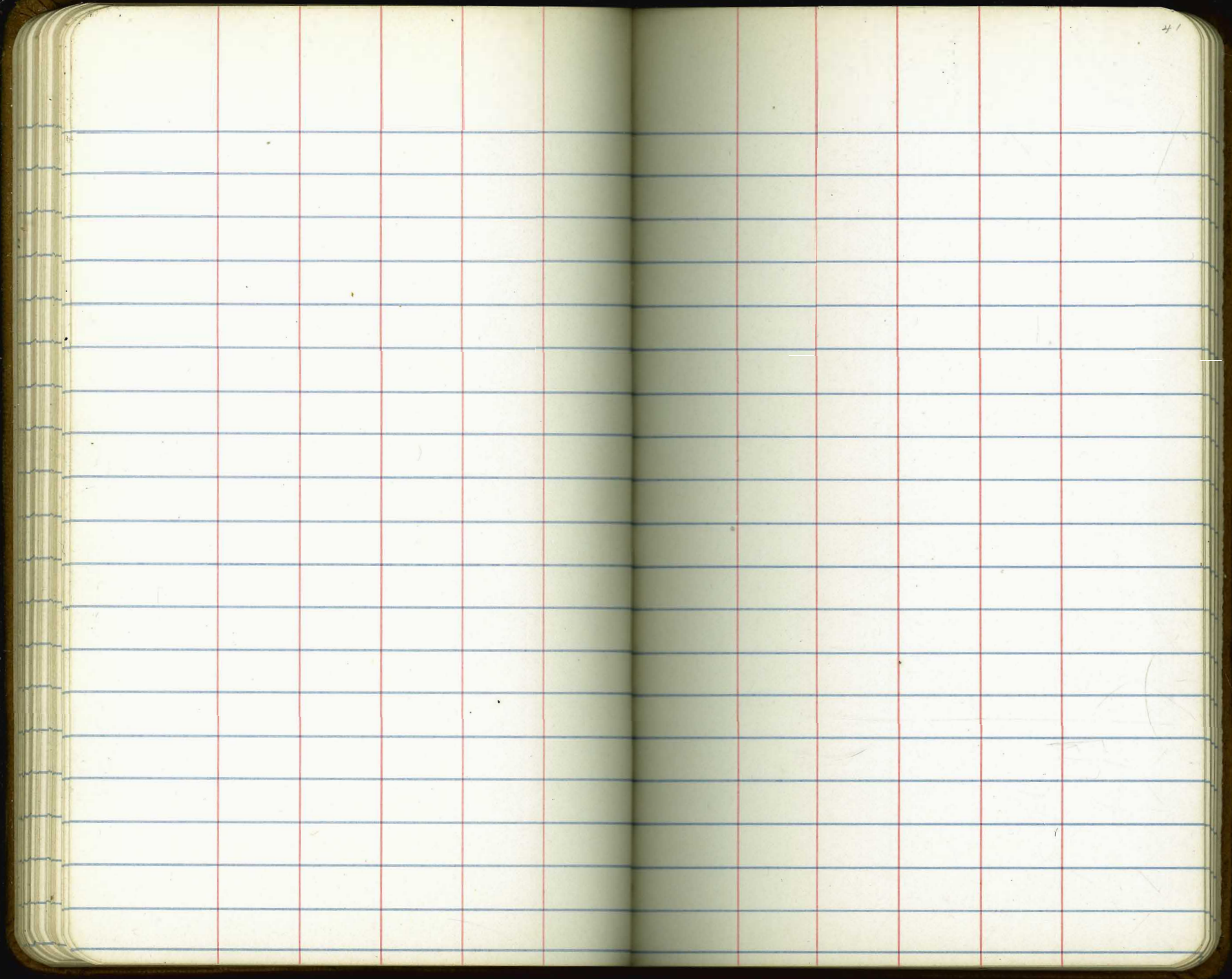
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines. The red lines create a margin on the left side of each page. The right page is numbered '37' in the top right corner. The notebook is bound in the center, and the pages appear slightly aged with some minor discoloration and faint smudges. The background is dark, likely the surface the notebook is resting on.

The image shows an open notebook with two facing pages. The pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on the left and one on the right, creating a central column and two side columns. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are blank, with no writing or markings other than the page number '38' in the top right corner of the right page.

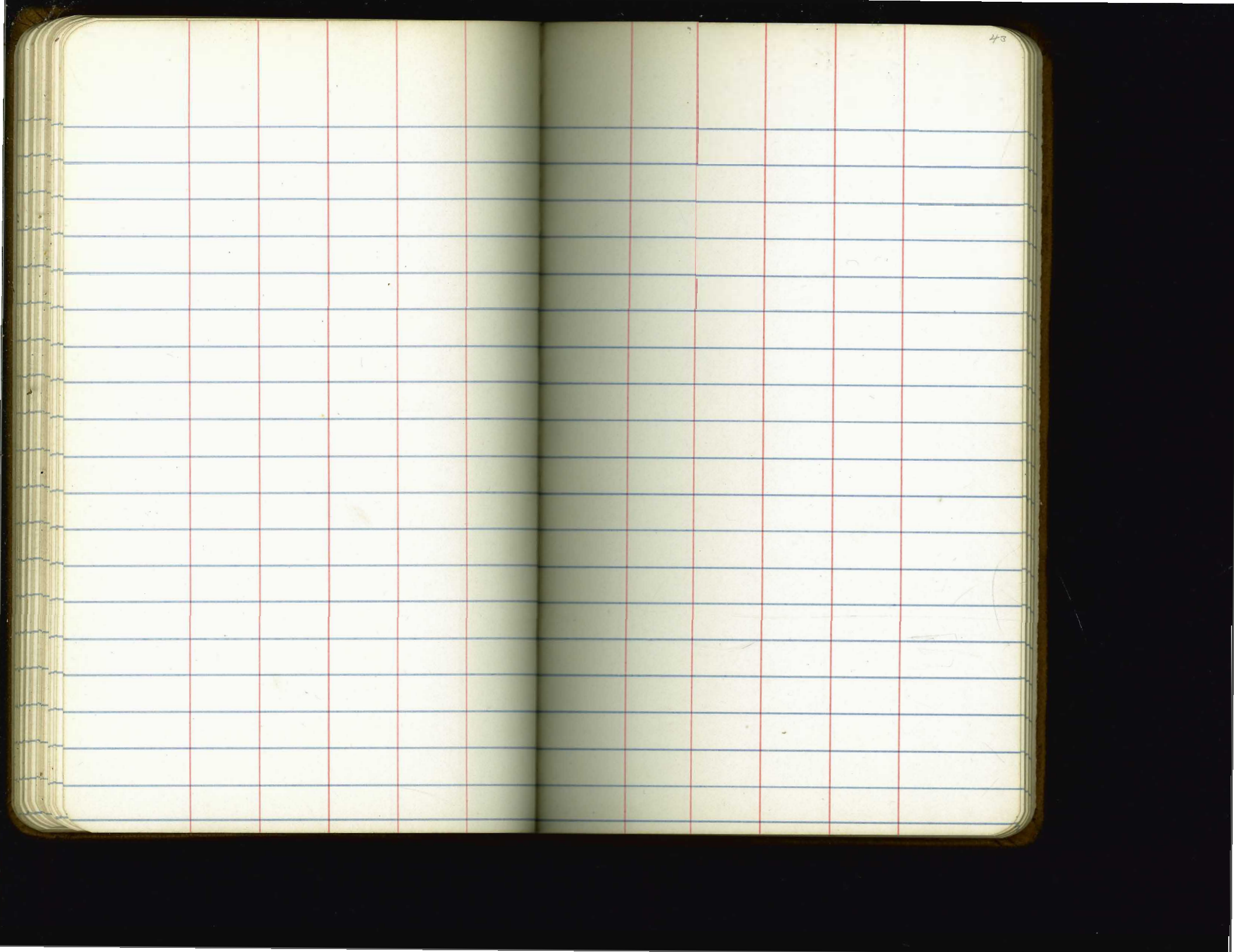


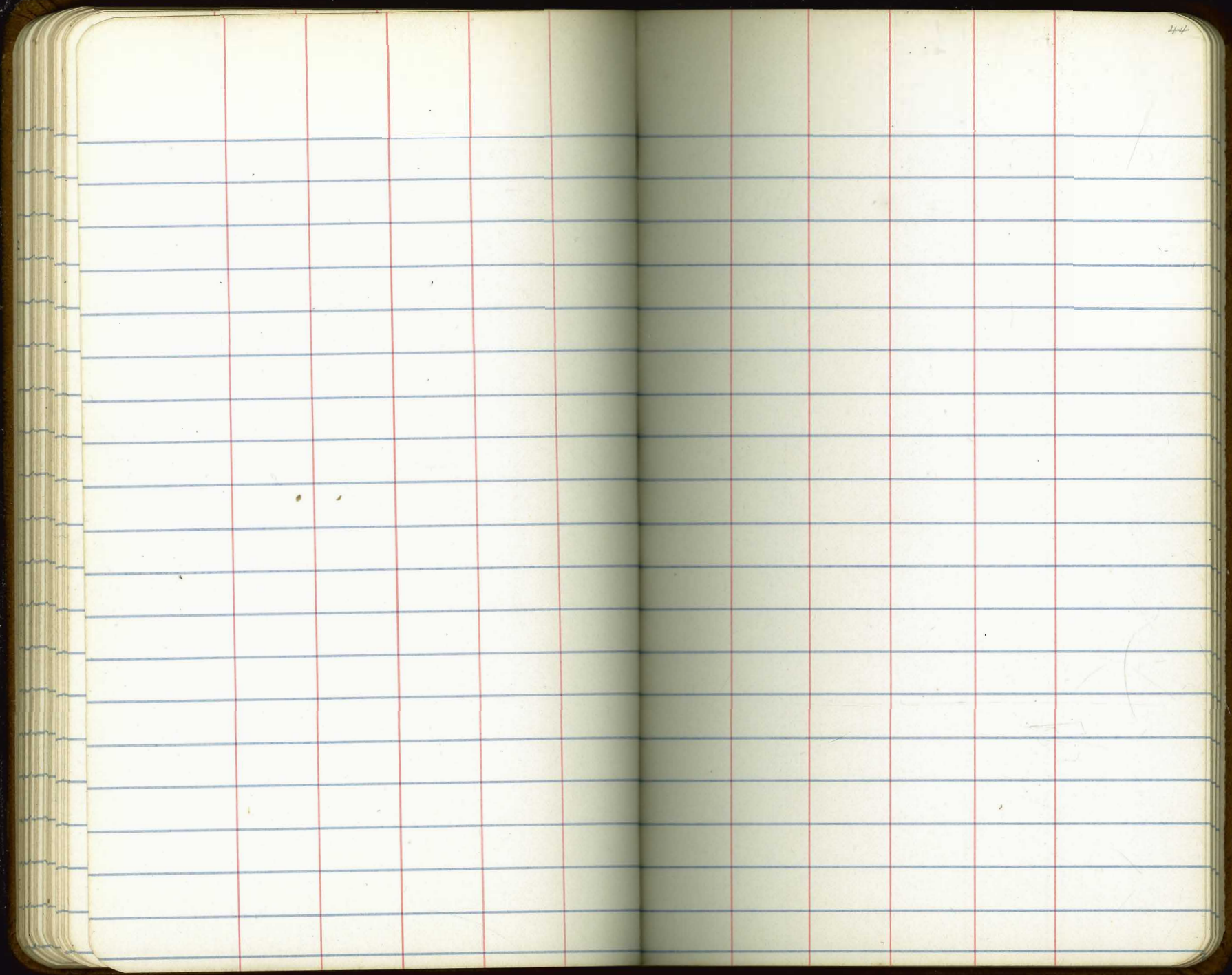


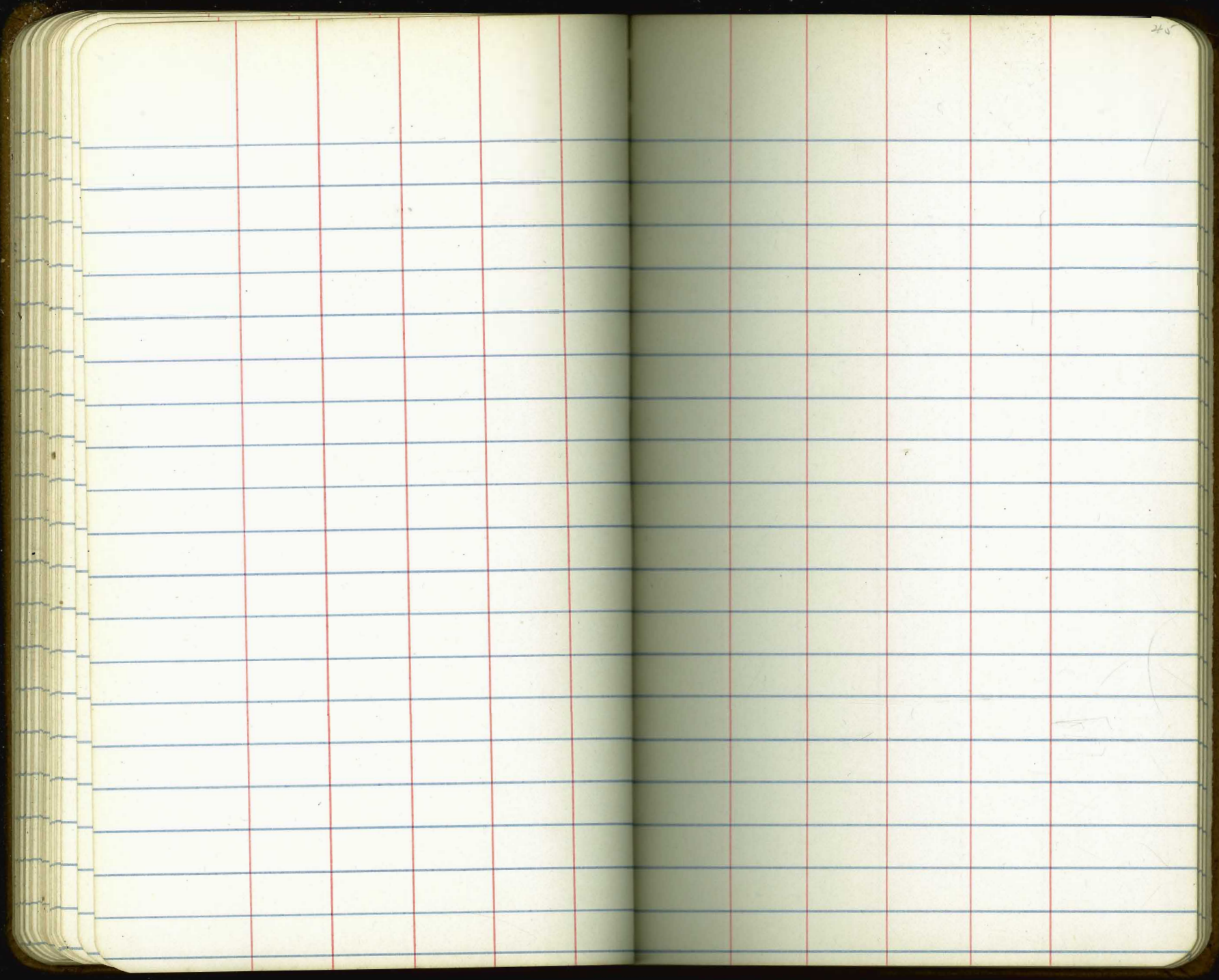
240

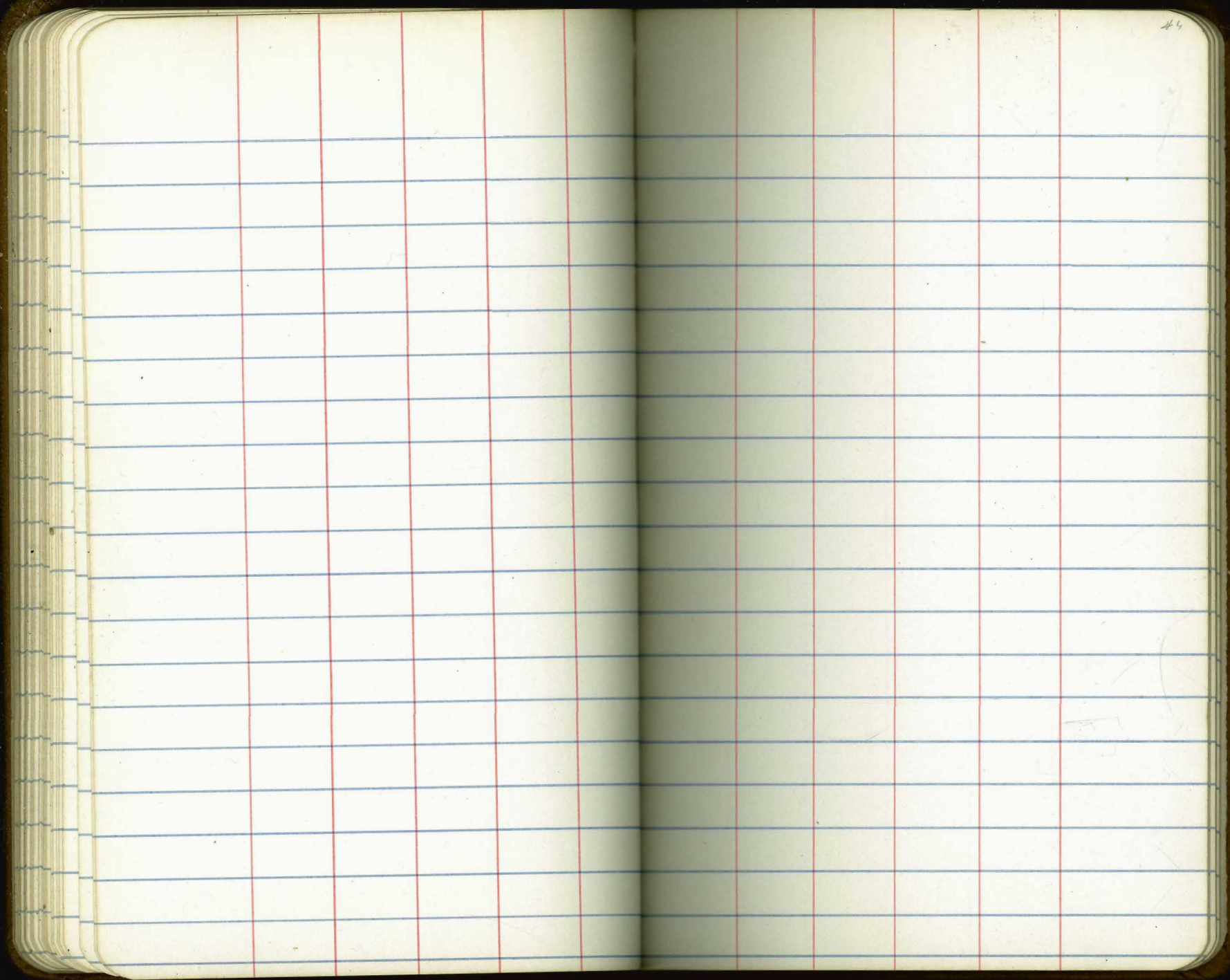


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines. The red lines are positioned approximately one-fifth and four-fifths of the way across each page, creating two narrow margins. The blue lines are spaced evenly down the length of the pages. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with only a small handwritten number '47' in the top right corner of the right page.



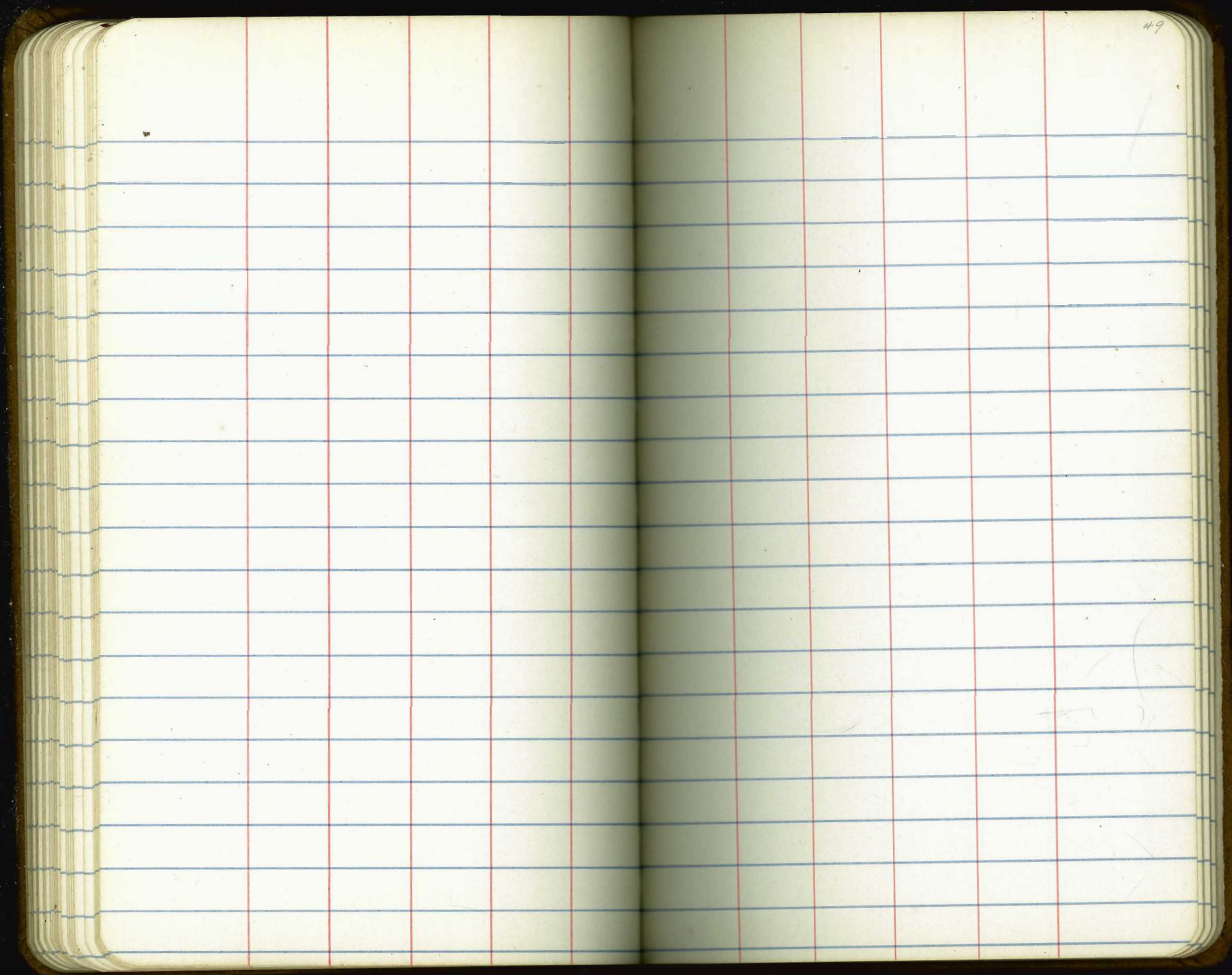


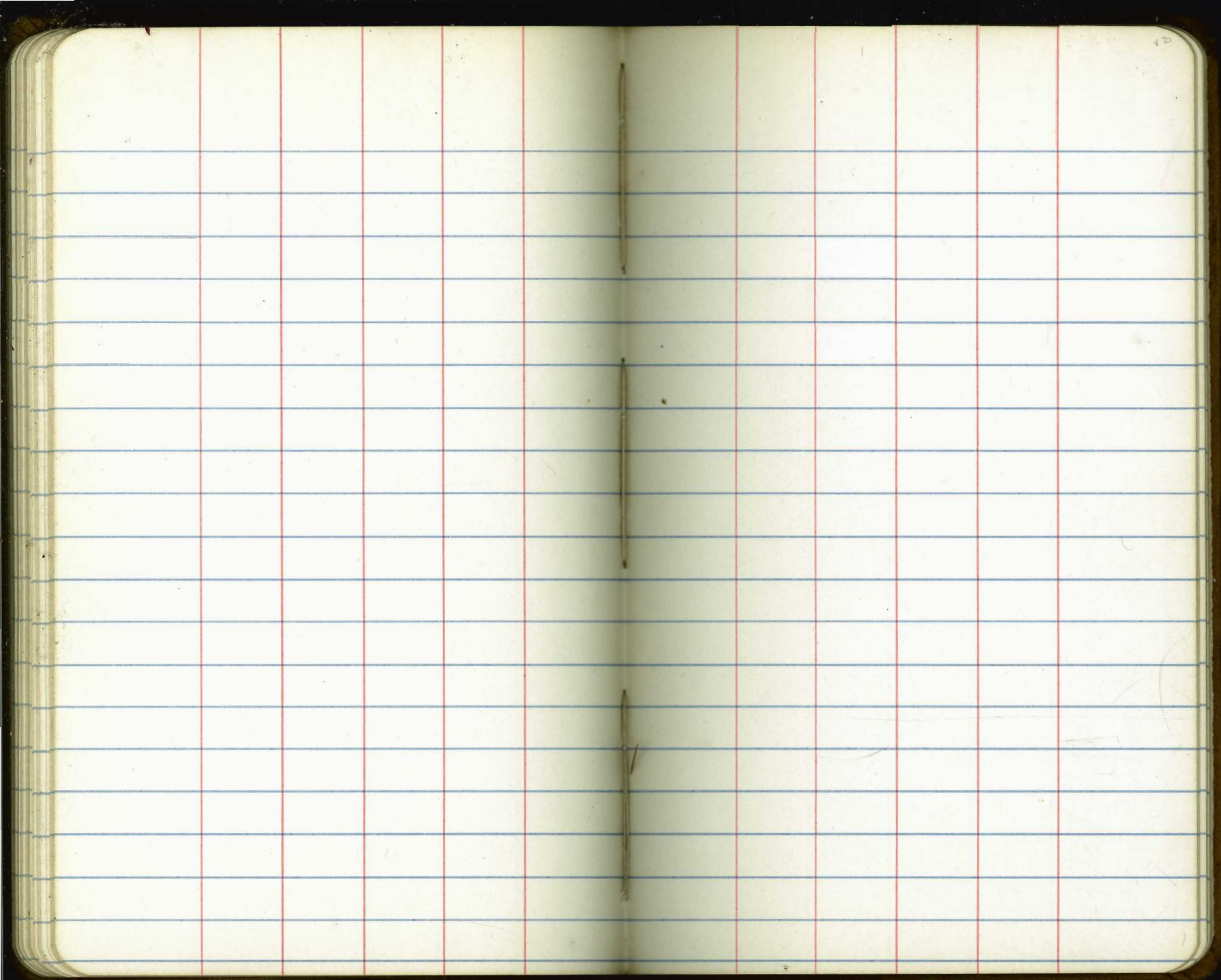


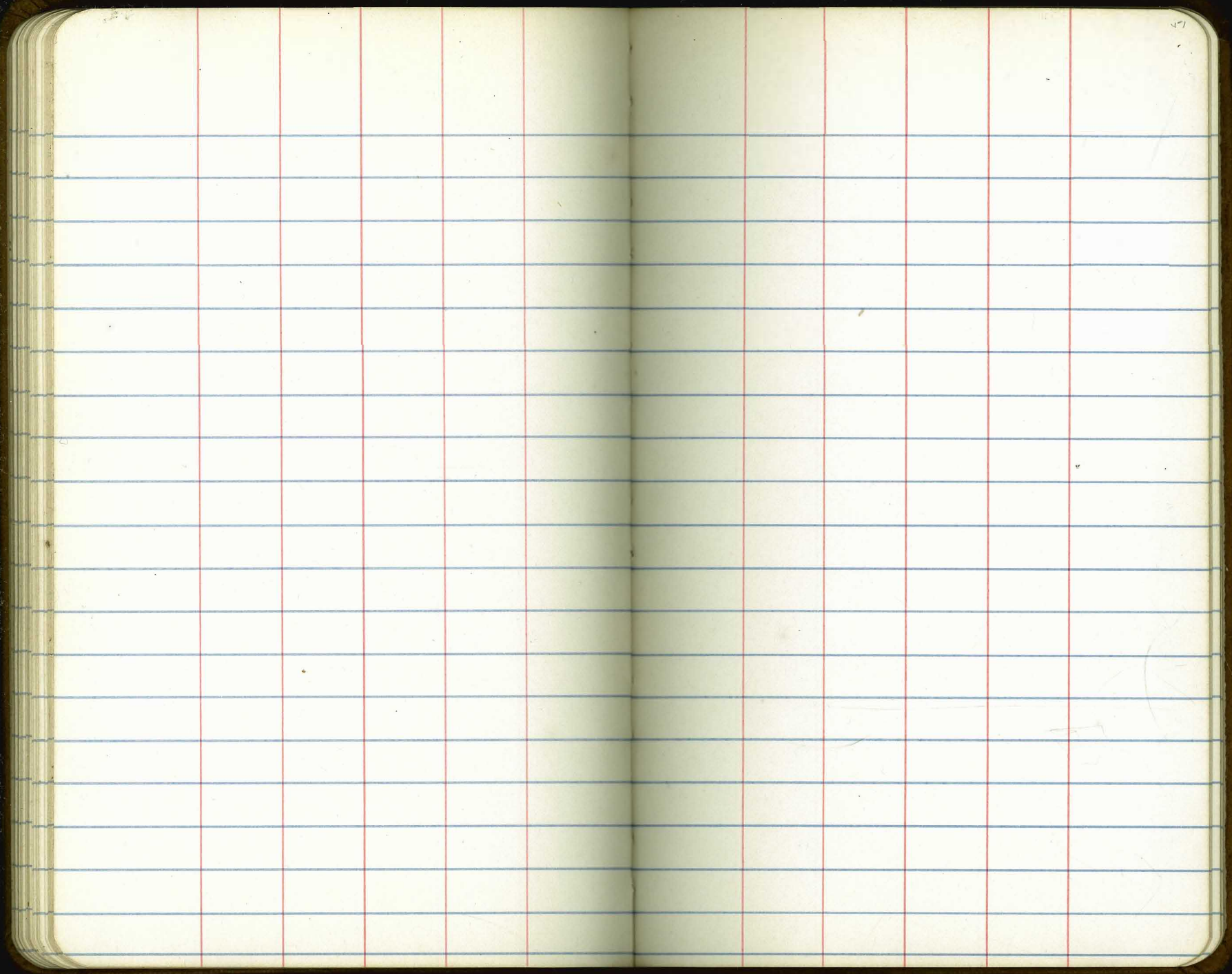


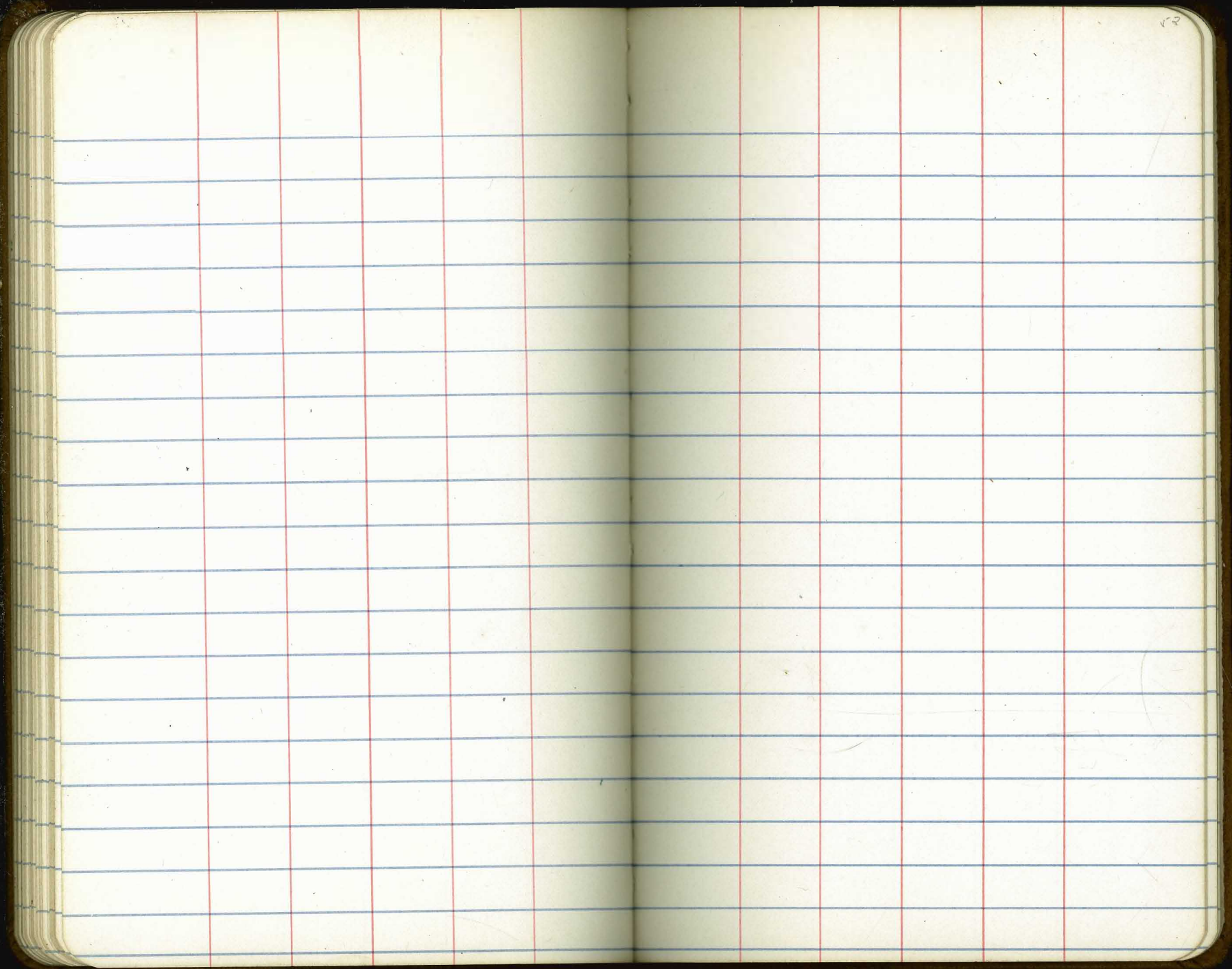
The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on the left and one on the right, creating a central column and two side columns. The pages are otherwise blank, with no handwriting or printed text. The notebook's dark cover is visible at the edges, and the pages are slightly aged with some minor discoloration and faint smudges.

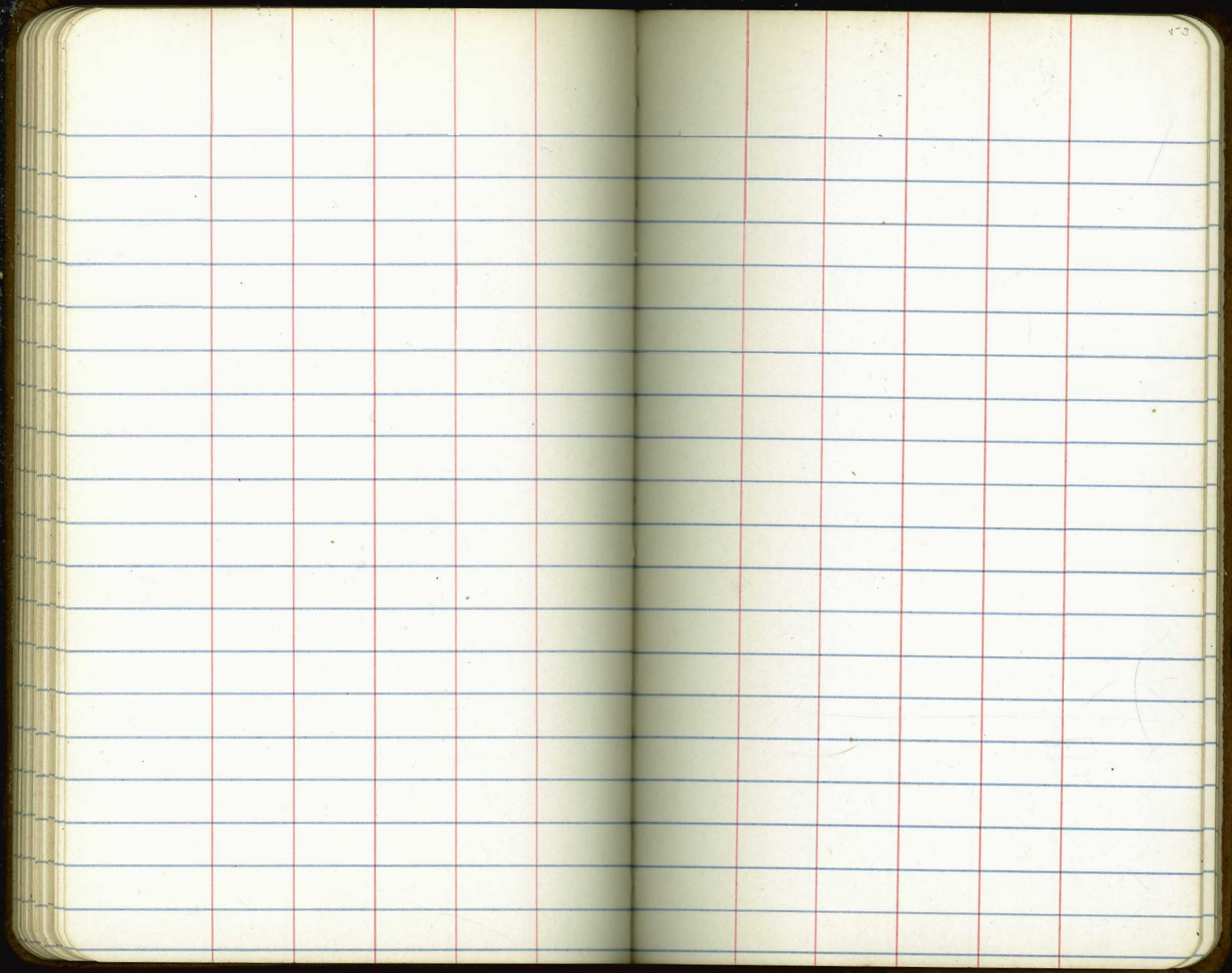
The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines, creating a ledger-style layout. Each page has a wide left margin and a narrow right margin. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with only a small number '84' in the top right corner of the right page.

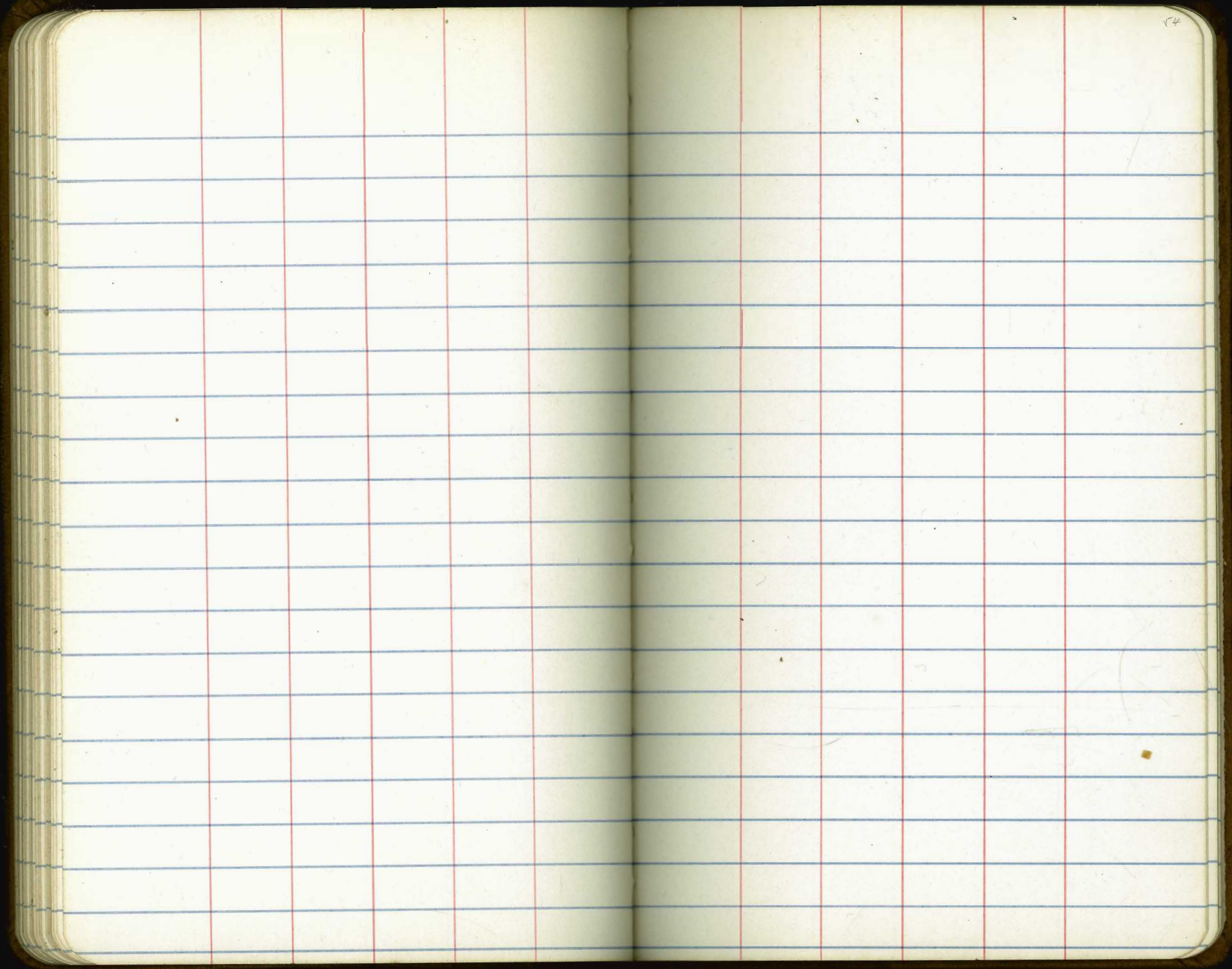


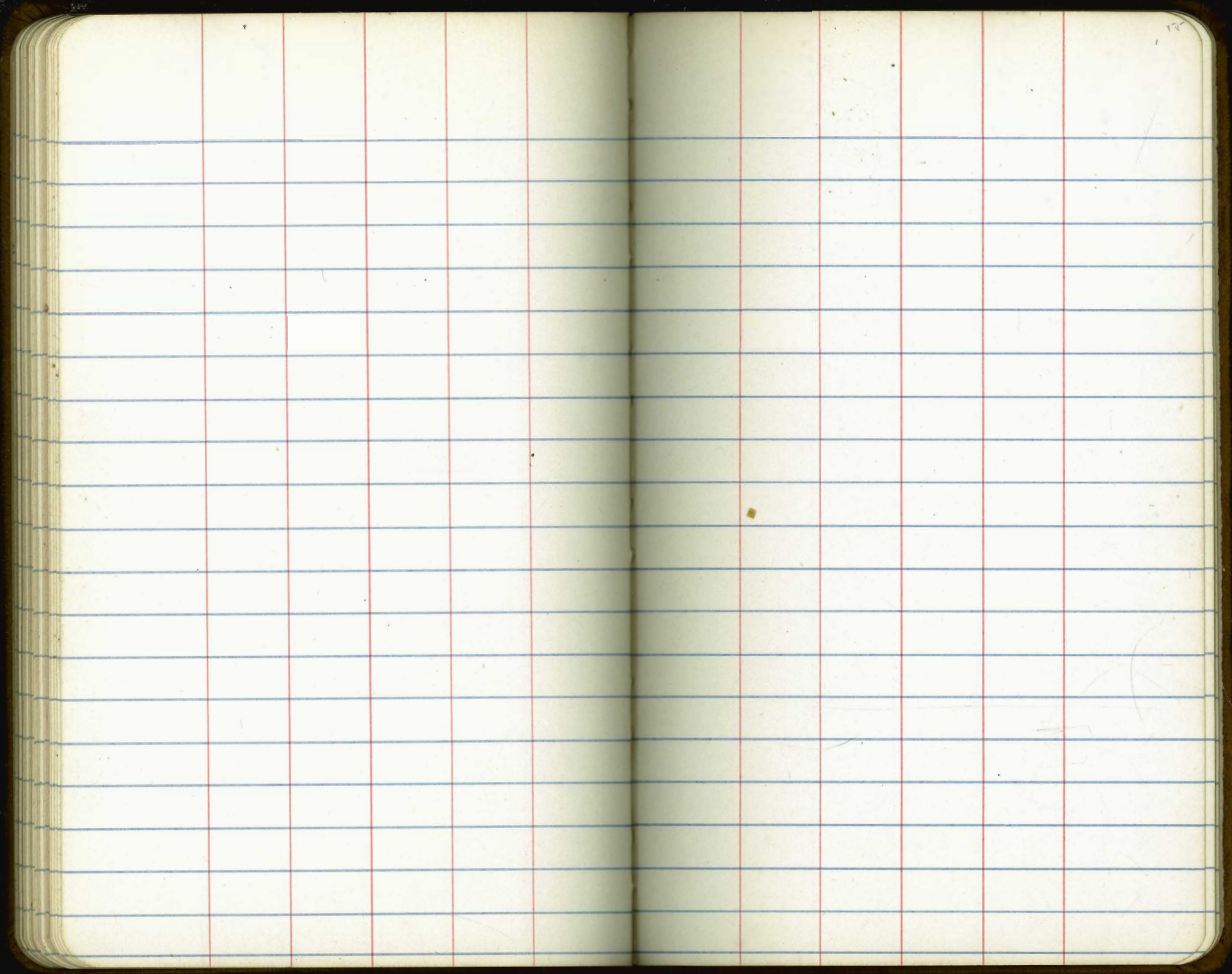


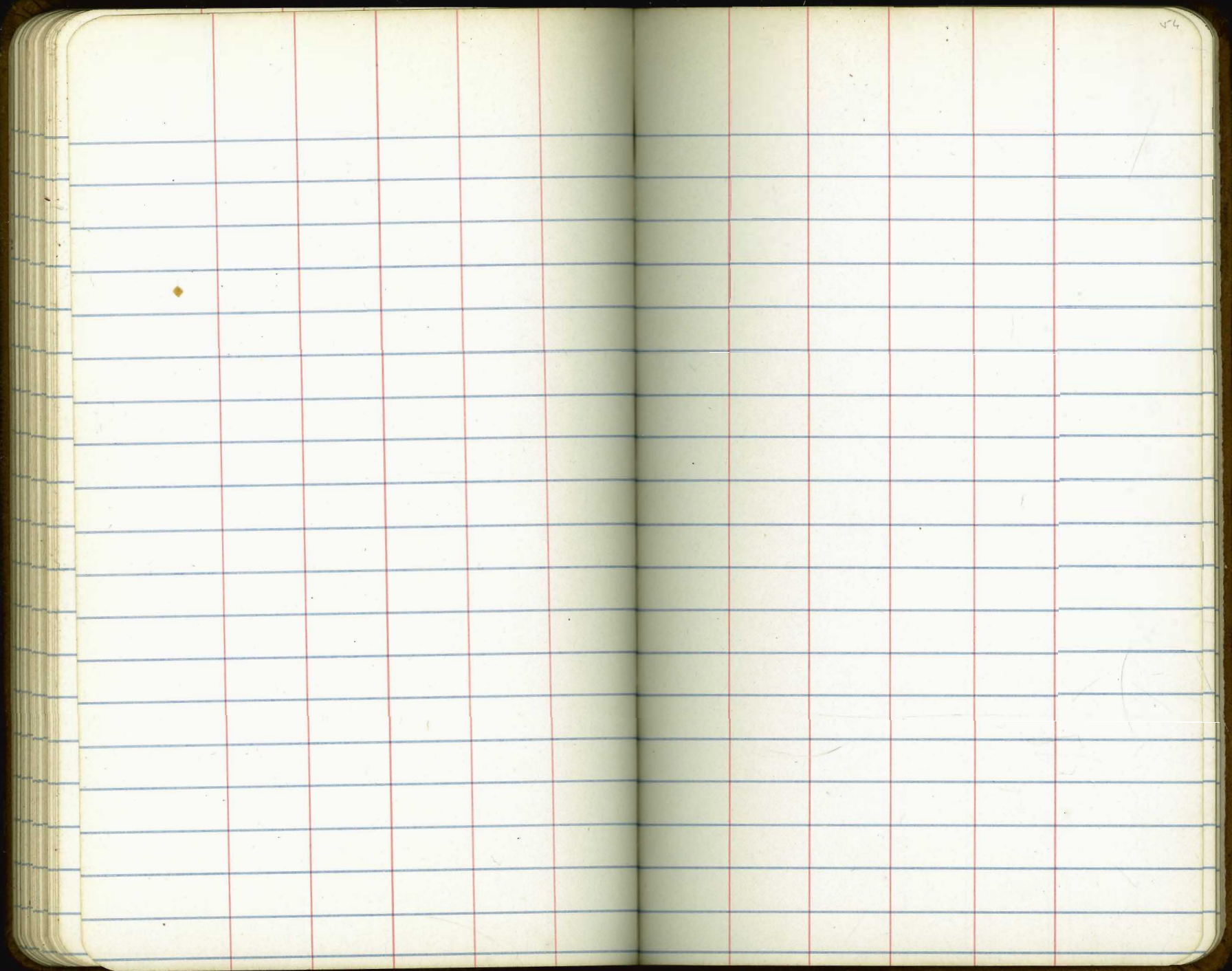


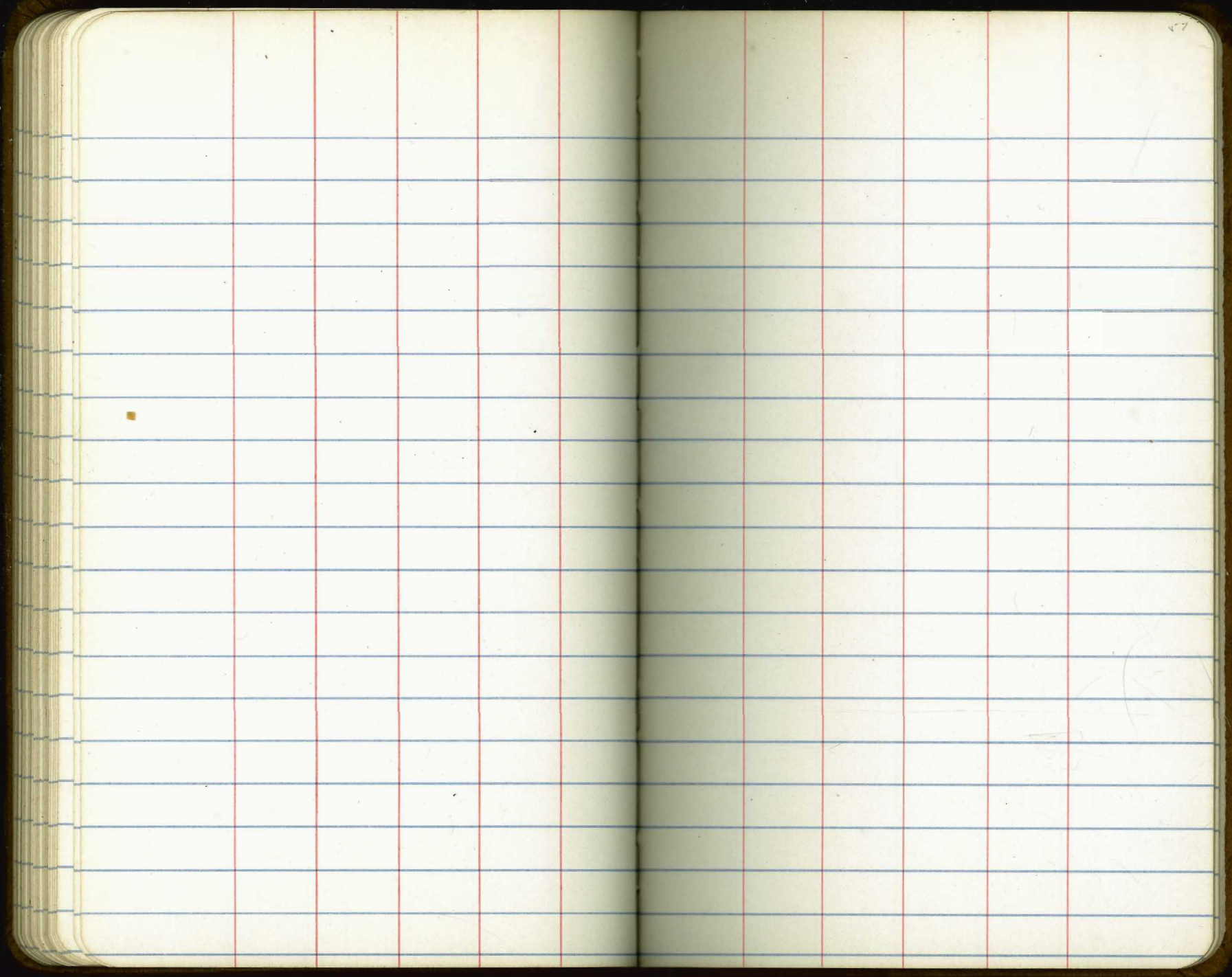


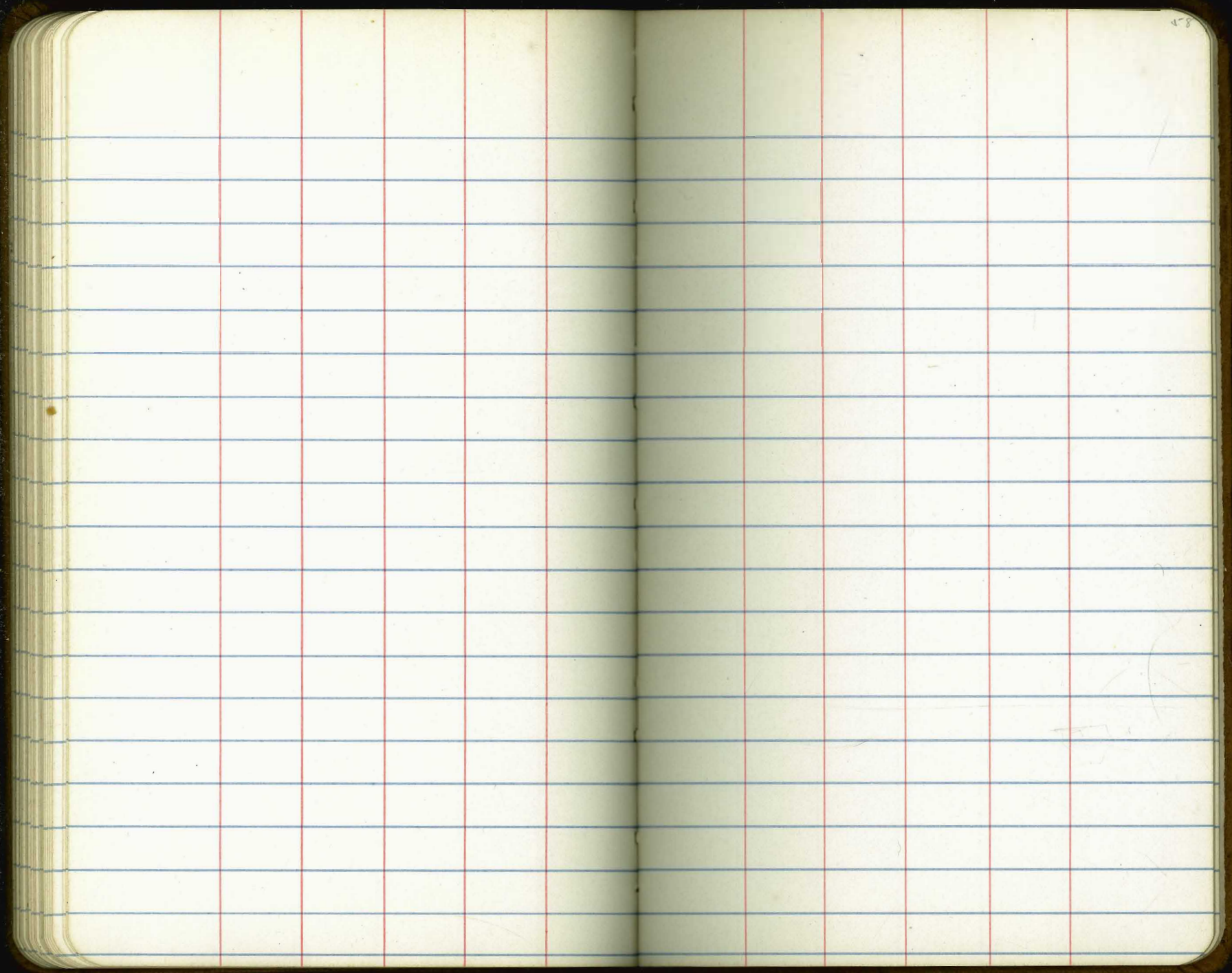




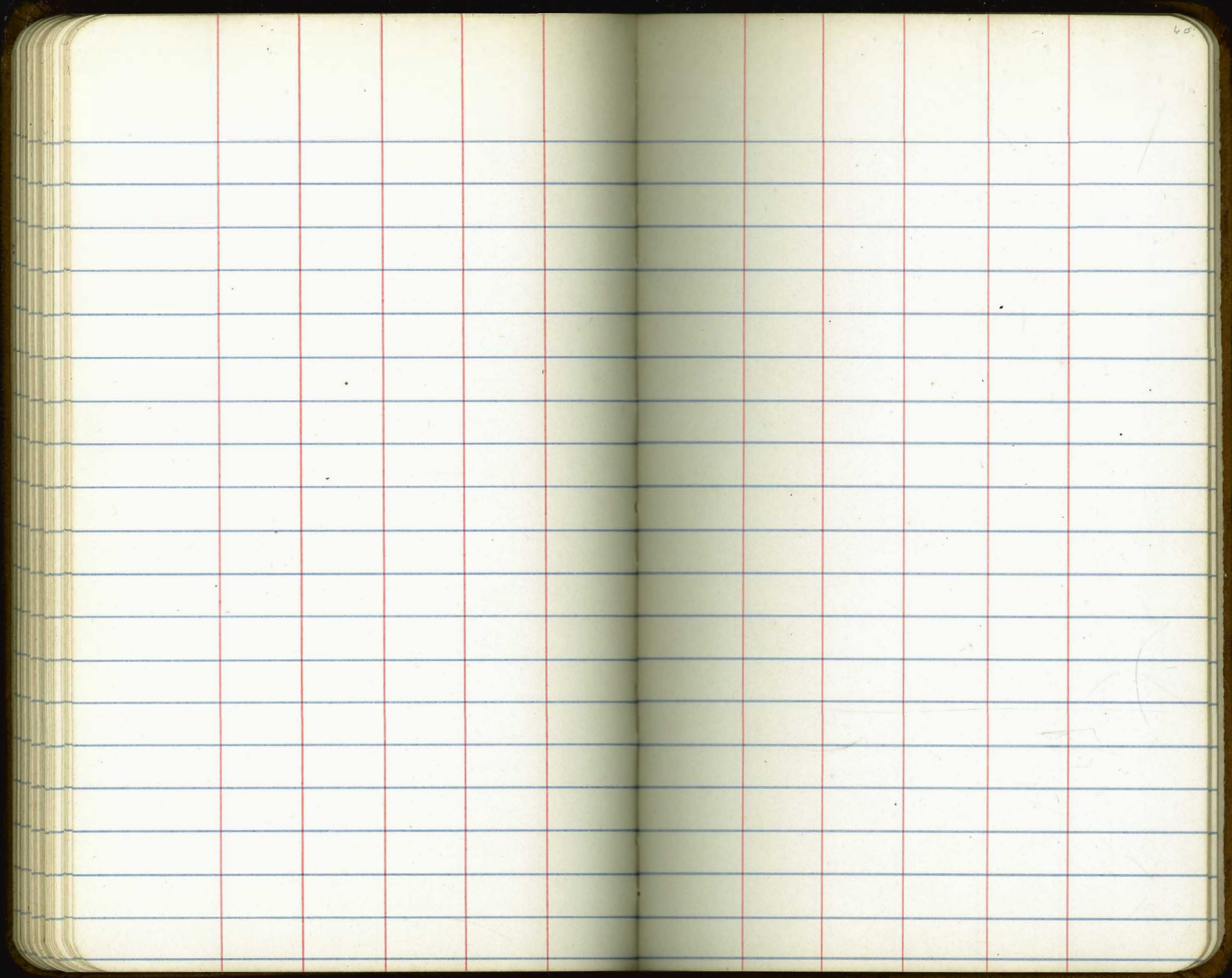




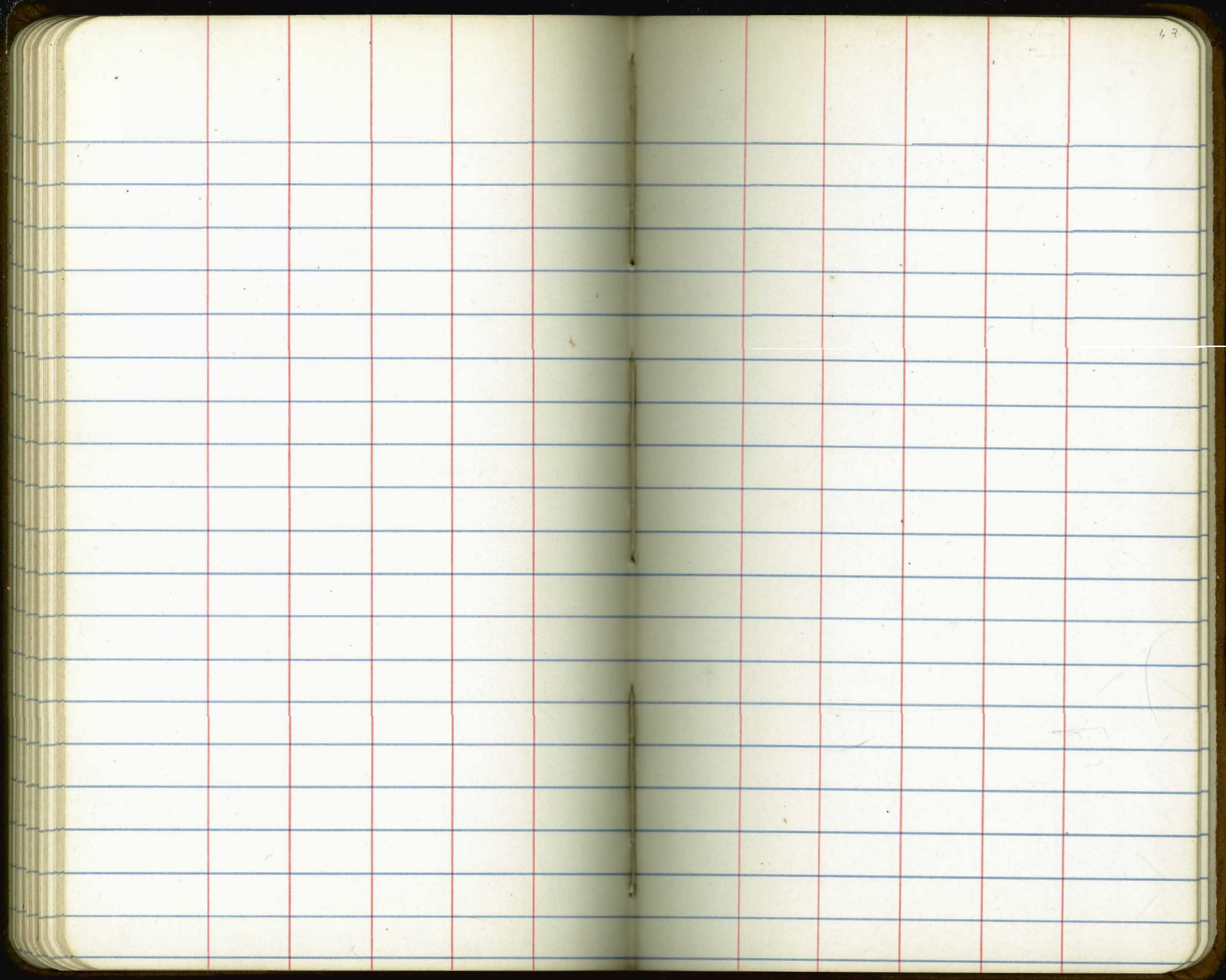


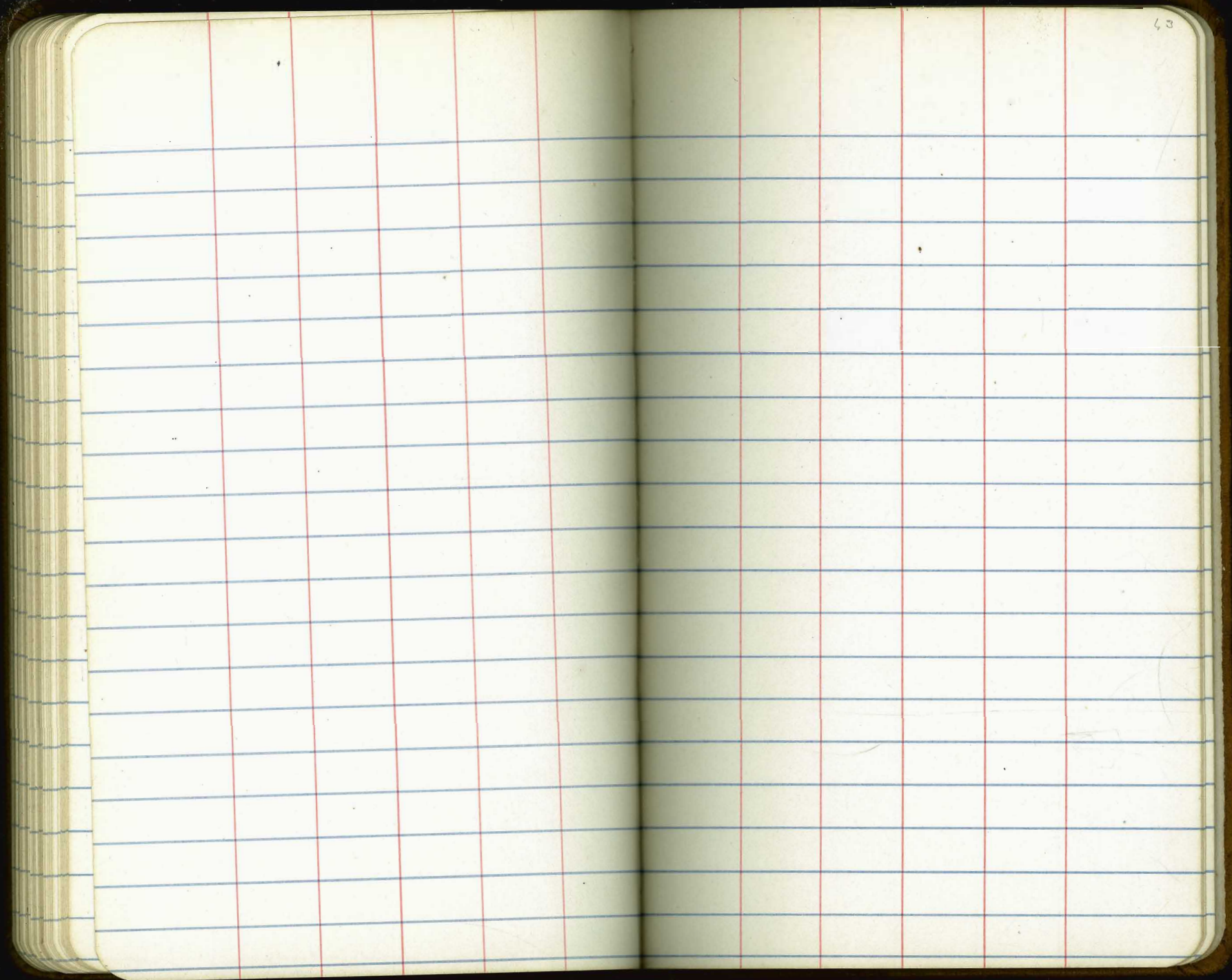


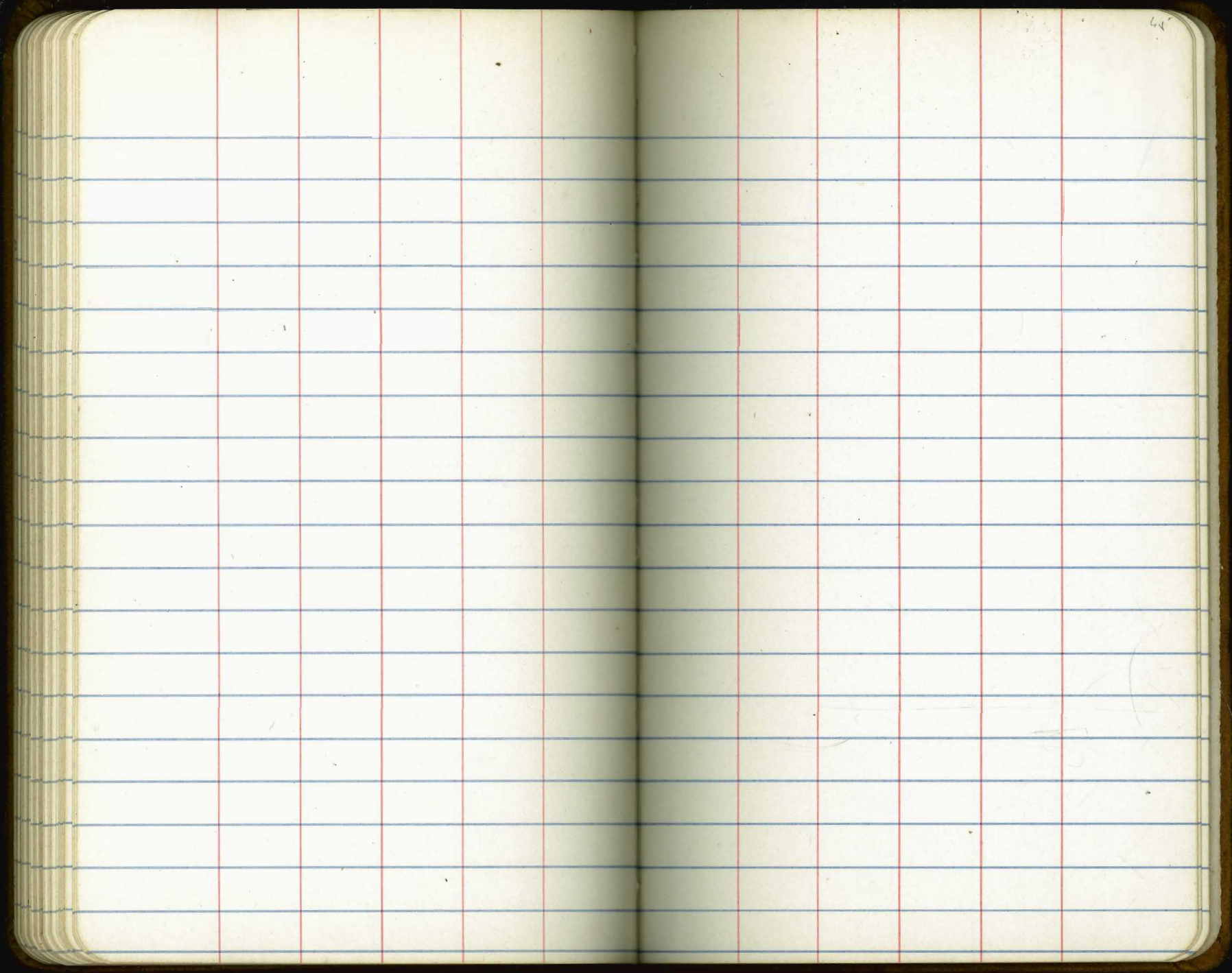
The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines, creating a ledger-style layout. Each page has a wide left margin and a wide right margin, with the central area divided into several columns of varying widths. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with only a small number '59' in the top right corner of the right page.



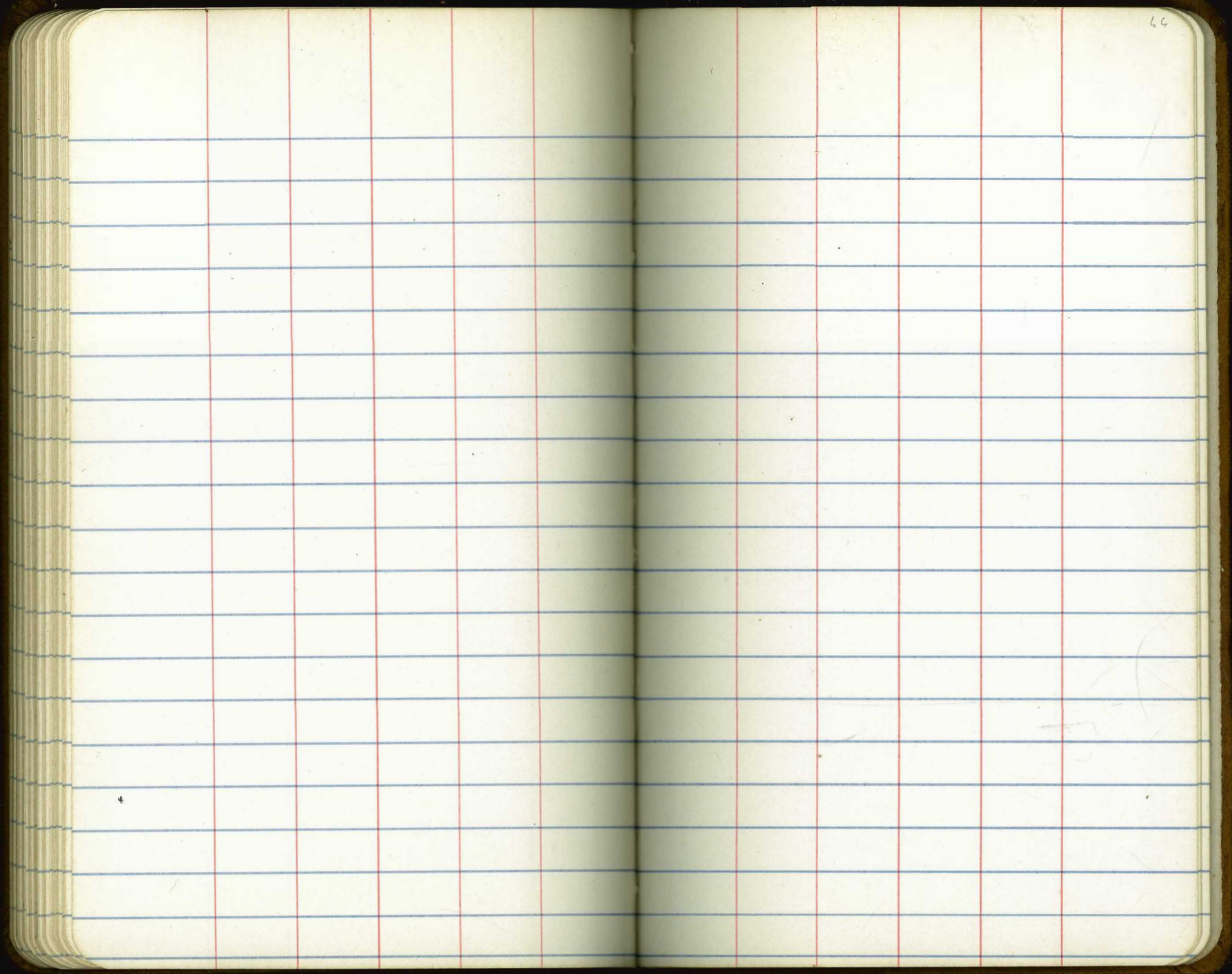
The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines, creating a ledger-style layout. Each page has a wide left margin and a narrow right margin. The notebook is bound in the center, and the dark cover is visible at the edges. The pages are otherwise blank, with only a small number '41' in the top right corner of the right page.



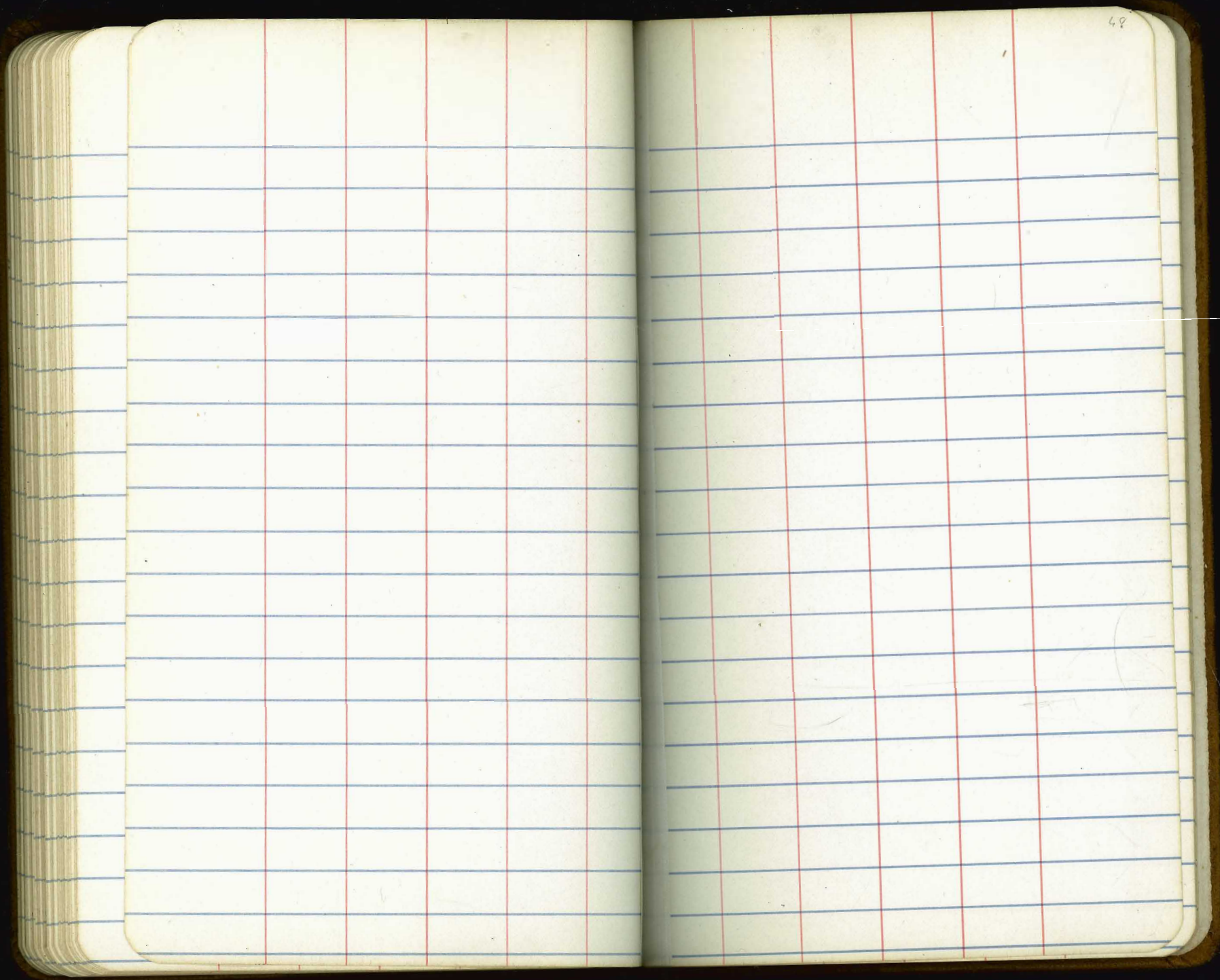


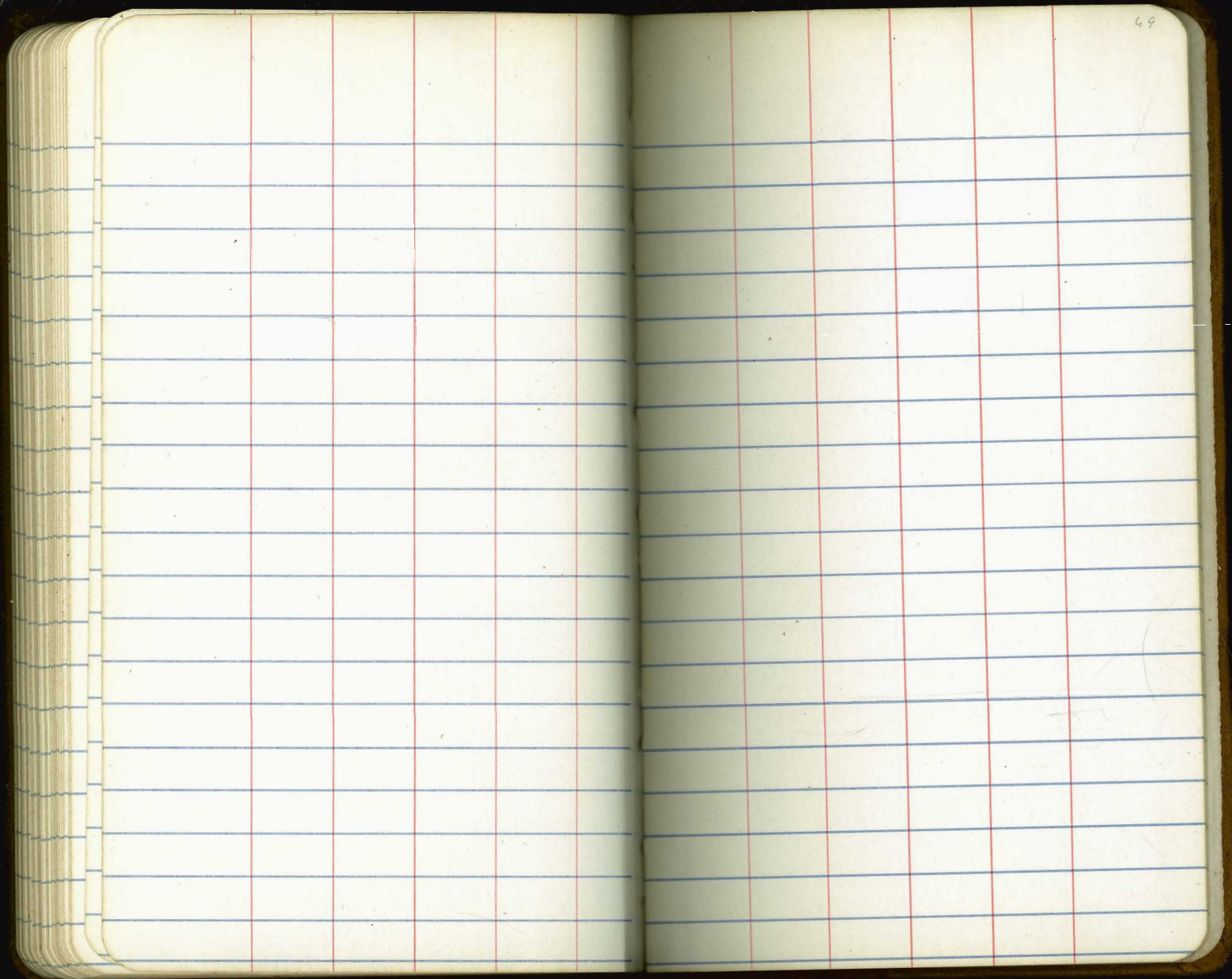


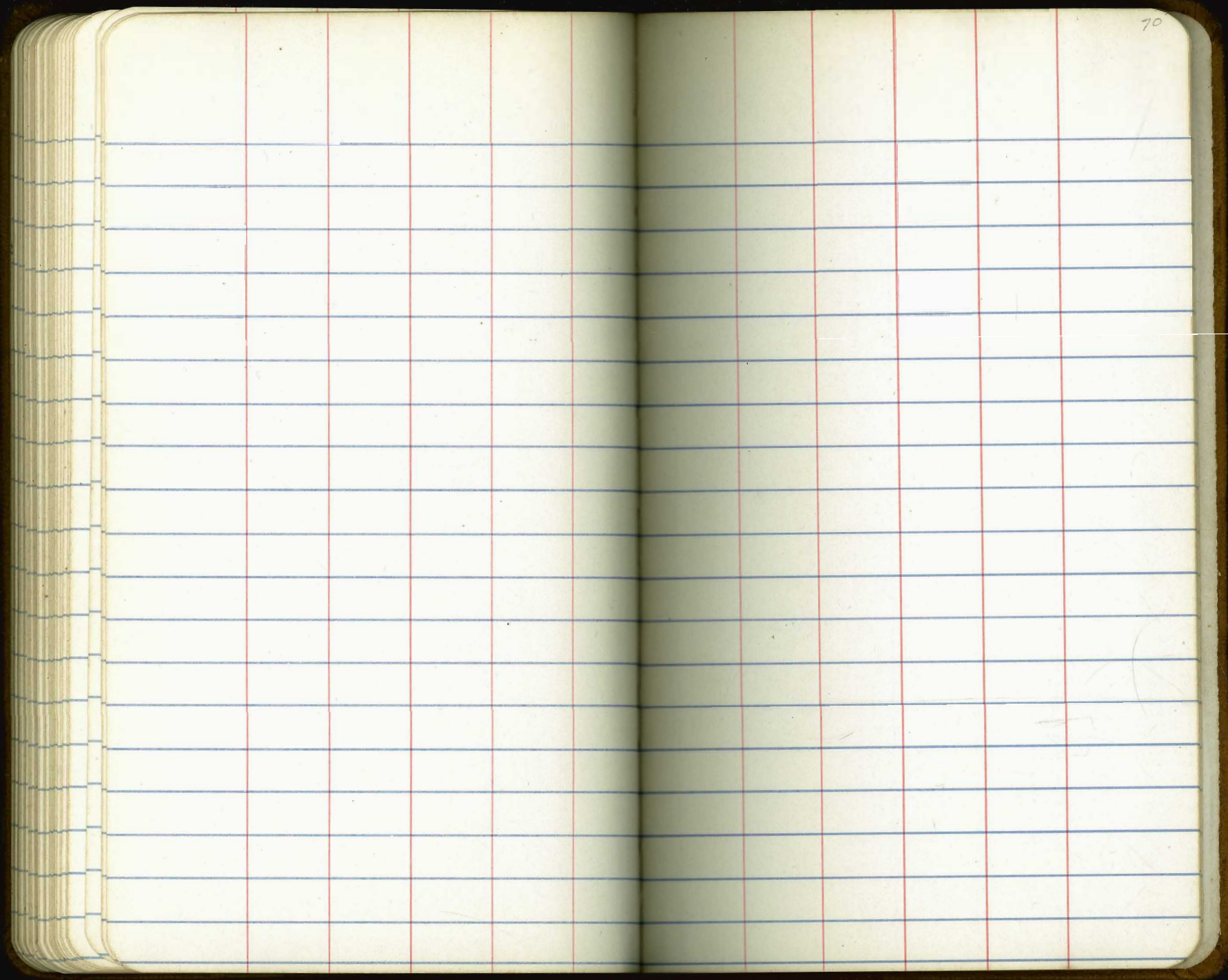
64



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Red vertical lines are drawn to create margins on both pages. The right page is numbered '47' in the top right corner. There are some faint pencil marks on the right page, including a small cross-like mark in the lower middle section and some light scribbles in the lower right quadrant. The notebook's binding is visible in the center, and the edges of the pages are slightly rounded.

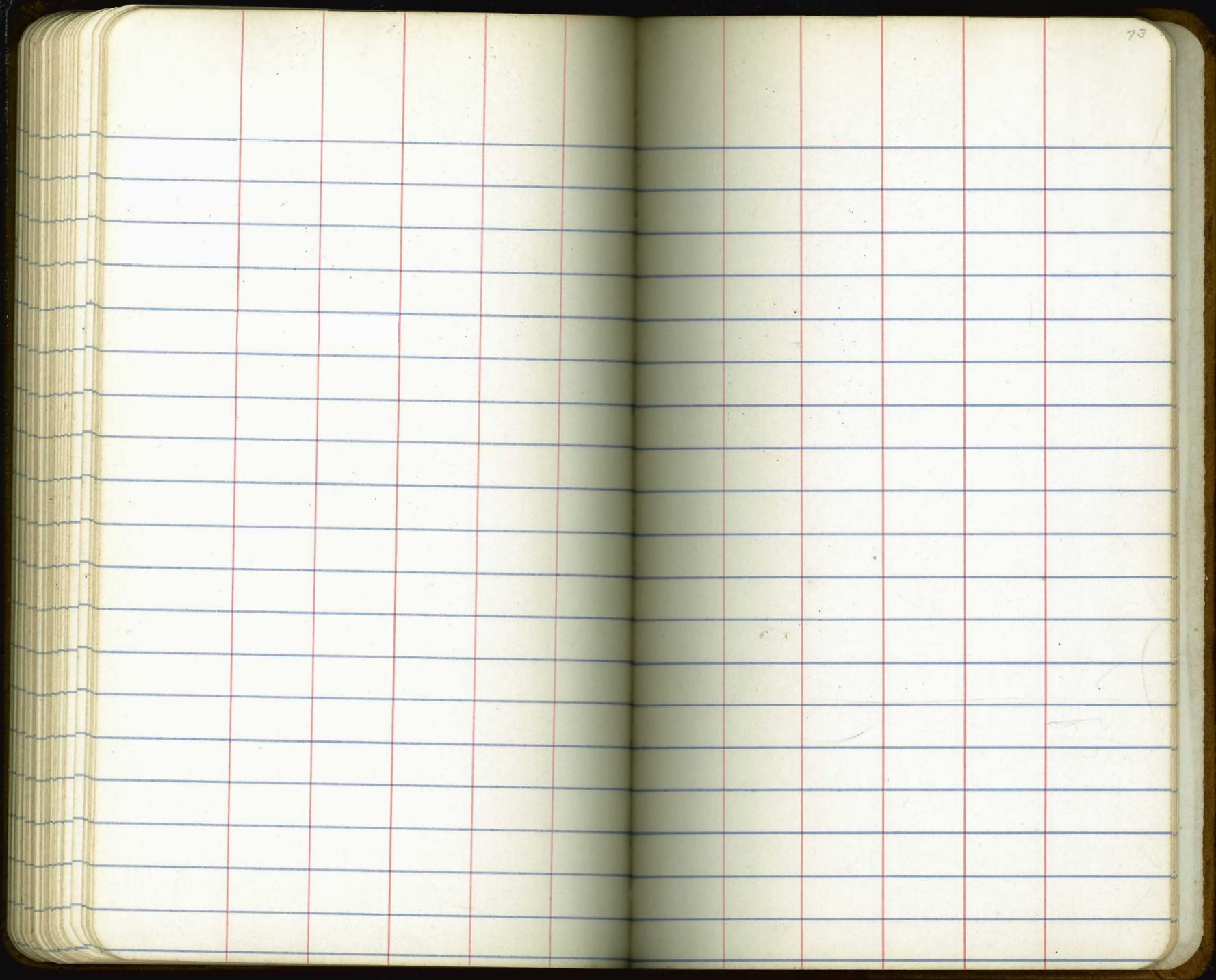




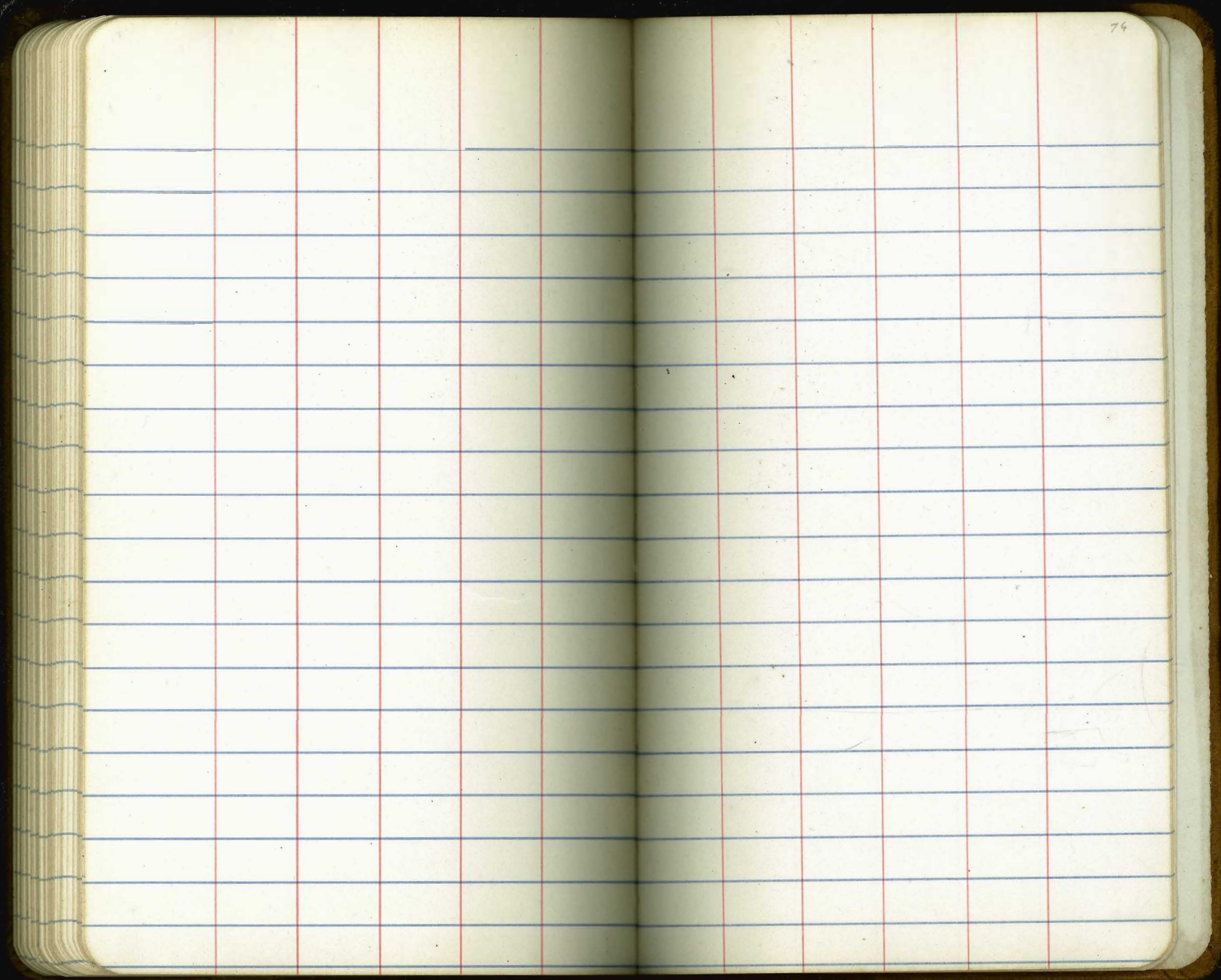


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page is also divided into columns by red vertical lines, creating a grid-like structure. The notebook is bound in a dark, possibly brown or black, cover that is visible at the edges. The pages are blank, with no handwriting or printed text. The number '71' is printed in the top right corner of the right-hand page. The notebook is set against a dark, solid background.

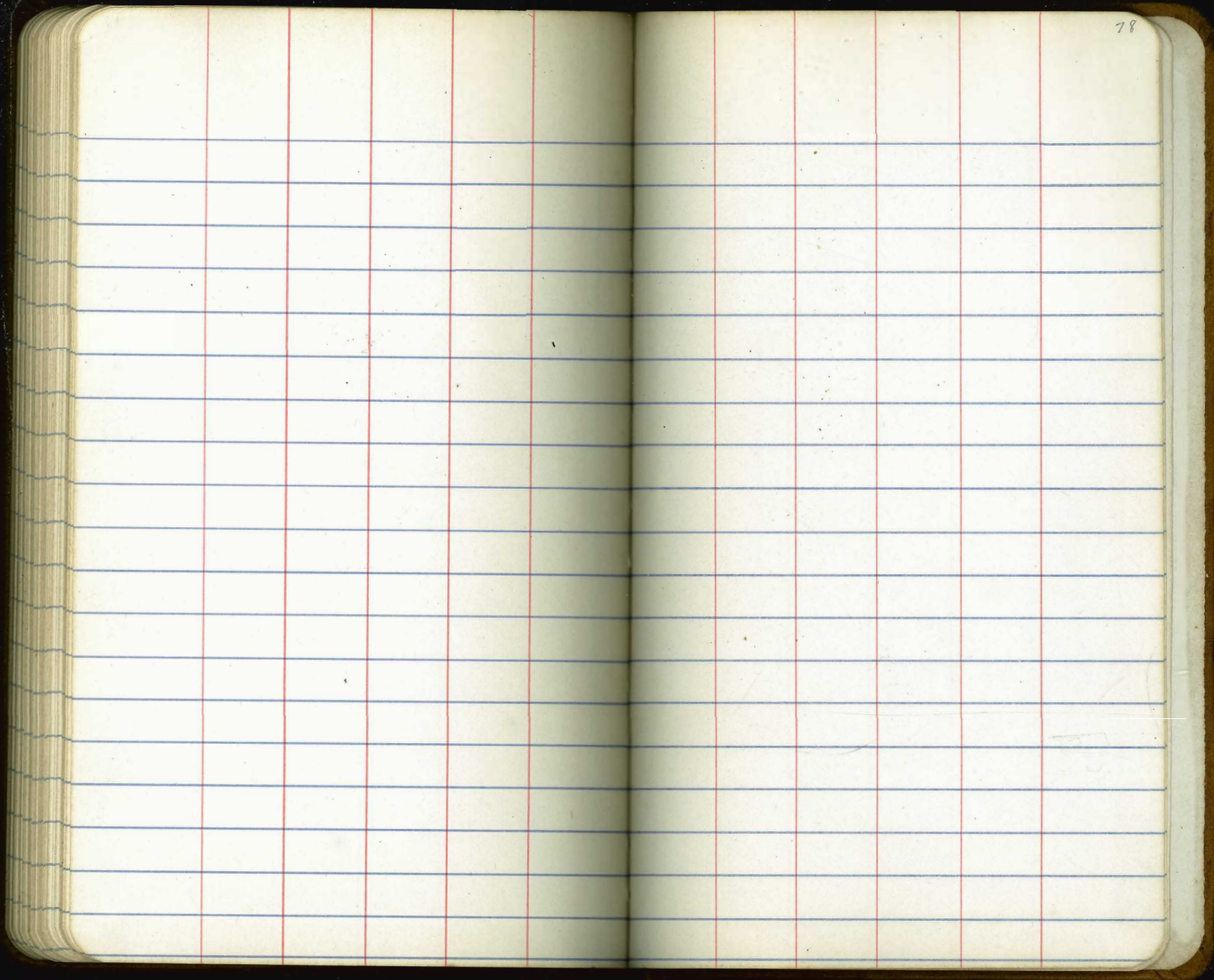
The image shows an open notebook with two facing pages. The pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines, creating a ledger-style layout. Each page has a wide left margin and a narrow right margin. The notebook is bound in the center, and the dark brown cover is visible at the edges. The page number '79' is printed in the top right corner of the right page. The pages are otherwise blank, with no handwriting or printed text.

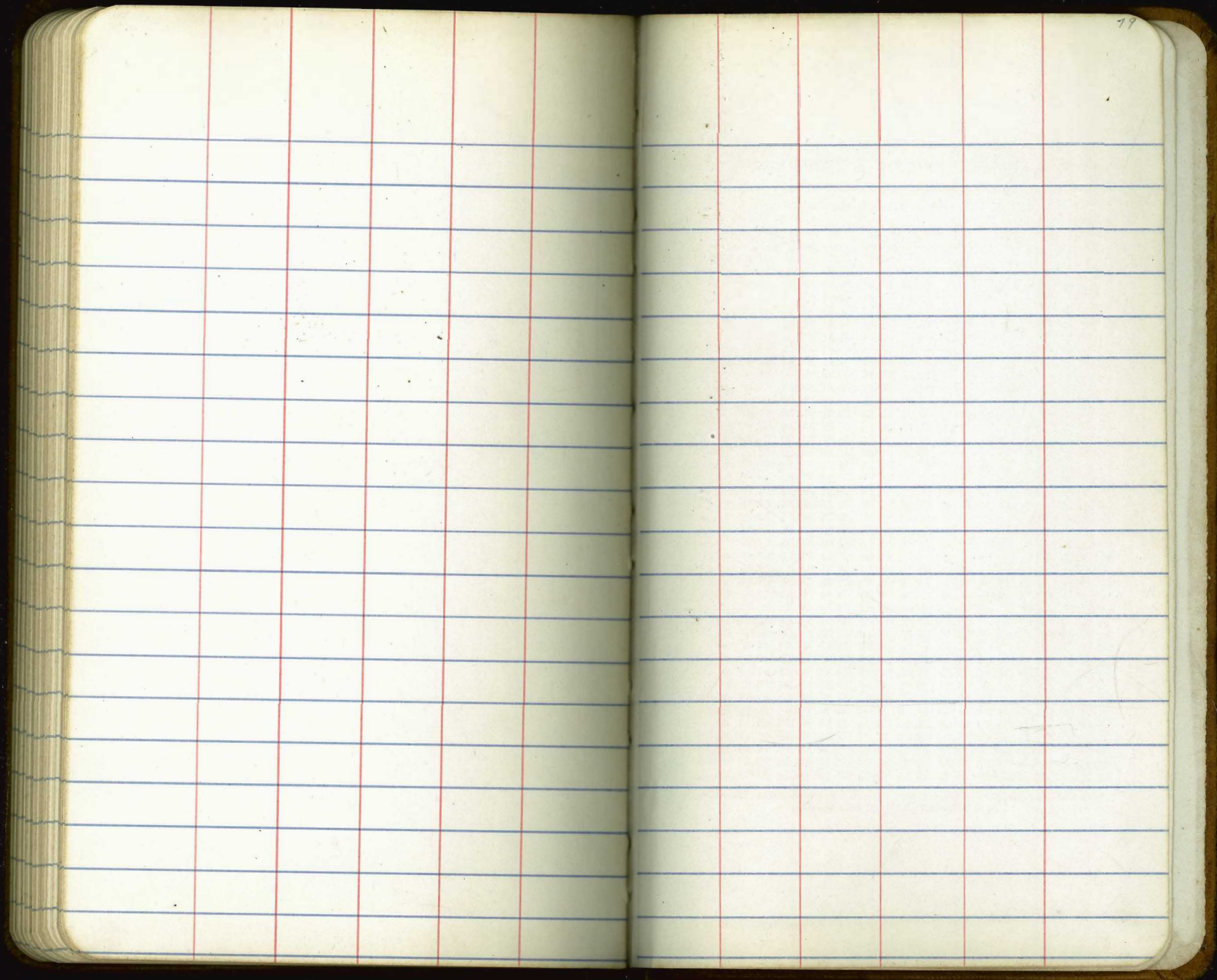


The image shows an open notebook with two facing pages. Both pages are cream-colored and feature blue horizontal ruling lines. Each page has two vertical red margin lines, one on the left and one on the right, creating a central column and two side columns. The pages are blank, with no writing or markings. The notebook is bound in the center, and the dark brown cover is visible at the edges. The page number '75' is printed in the top right corner of the right page.



The image shows an open notebook with two facing pages. Both pages are cream-colored and feature a grid of blue horizontal lines and red vertical lines. The red lines create a margin on the left side of each page. The right page has the number '77' written in the top right corner. The notebook is bound in the center, and the edges of the pages are visible on the left side.





DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.00	7.15	7.30	7.45	7.60	7.75	7.90	8.05	8.20	8.35	0
1	8.50	8.65	8.80	8.95	9.10	9.25	9.40	9.55	9.70	9.85	1
2	10.00	10.15	10.30	10.45	10.60	10.75	10.90	11.05	11.20	11.35	2
3	11.50	11.65	11.80	11.95	12.10	12.25	12.40	12.55	12.70	12.85	3
4	13.00	13.15	13.30	13.45	13.60	13.75	13.90	14.05	14.20	14.35	4
5	14.50	14.65	14.80	14.95	15.10	15.25	15.40	15.55	15.70	15.85	5
6	16.00	16.15	16.30	16.45	16.60	16.75	16.90	17.05	17.20	17.35	6
7	17.50	17.65	17.80	17.95	18.10	18.25	18.40	18.55	18.70	18.85	7
8	19.00	19.15	19.30	19.45	19.60	19.75	19.90	20.05	20.20	20.35	8
9	20.50	20.65	20.80	20.95	21.10	21.25	21.40	21.55	21.70	21.85	9
10	22.00	22.15	22.30	22.45	22.60	22.75	22.90	23.05	23.20	23.35	10
11	23.50	23.65	23.80	23.95	24.10	24.25	24.40	24.55	24.70	24.85	11
12	25.00	25.15	25.30	25.45	25.60	25.75	25.90	26.05	26.20	26.35	12
13	26.50	26.65	26.80	26.95	27.10	27.25	27.40	27.55	27.70	27.85	13
14	28.00	28.15	28.30	28.45	28.60	28.75	28.90	29.05	29.20	29.35	14
15	29.50	29.65	29.80	29.95	30.10	30.25	30.40	30.55	30.70	30.85	15
16	31.00	31.15	31.30	31.45	31.60	31.75	31.90	32.05	32.20	32.35	16
17	32.50	32.65	32.80	32.95	33.10	33.25	33.40	33.55	33.70	33.85	17
18	34.00	34.15	34.30	34.45	34.60	34.75	34.90	35.05	35.20	35.35	18
19	35.50	35.65	35.80	35.95	36.10	36.25	36.40	36.55	36.70	36.85	19
20	37.00	37.15	37.30	37.45	37.60	37.75	37.90	38.05	38.20	38.35	20
21	38.50	38.65	38.80	38.95	39.10	39.25	39.40	39.55	39.70	39.85	21
22	40.00	40.15	40.30	40.45	40.60	40.75	40.90	41.05	41.20	41.35	22
23	41.50	41.65	41.80	41.95	42.10	42.25	42.40	42.55	42.70	42.85	23
24	43.00	43.15	43.30	43.45	43.60	43.75	43.90	44.05	44.20	44.35	24
25	44.50	44.65	44.80	44.95	45.10	45.25	45.40	45.55	45.70	45.85	25
26	46.00	46.15	46.30	46.45	46.60	46.75	46.90	47.05	47.20	47.35	26
27	47.50	47.65	47.80	47.95	48.10	48.25	48.40	48.55	48.70	48.85	27
28	49.00	49.15	49.30	49.45	49.60	49.75	49.90	50.05	50.20	50.35	28
29	50.50	50.65	50.80	50.95	51.10	51.25	51.40	51.55	51.70	51.85	29
30	52.00	52.15	52.30	52.45	52.60	52.75	52.90	53.05	53.20	53.35	30
31	53.50	53.65	53.80	53.95	54.10	54.25	54.40	54.55	54.70	54.85	31
32	55.00	55.15	55.30	55.45	55.60	55.75	55.90	56.05	56.20	56.35	32
33	56.50	56.65	56.80	56.95	57.10	57.25	57.40	57.55	57.70	57.85	33
34	58.00	58.15	58.30	58.45	58.60	58.75	58.90	59.05	59.20	59.35	34
35	59.50	59.65	59.80	59.95	60.10	60.25	60.40	60.55	60.70	60.85	35
36	61.00	61.15	61.30	61.45	61.60	61.75	61.90	62.05	62.20	62.35	36
37	62.50	62.65	62.80	62.95	63.10	63.25	63.40	63.55	63.70	63.85	37
38	64.00	64.15	64.30	64.45	64.60	64.75	64.90	65.05	65.20	65.35	38
39	65.50	65.65	65.80	65.95	66.10	66.25	66.40	66.55	66.70	66.85	39
40	67.00	67.15	67.30	67.45	67.60	67.75	67.90	68.05	68.20	68.35	40

Calculated by F. E. Paradis, O. E.

Lietz - Dumpi
Level # 5140

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 16 FEET WIDE. SIDE SLOPES 1½ TO 1.
FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Calculated by F. E. Paradis, C. E.

