

7th and 8th

9

TRANSIT

F.B. 710

710

showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2½	21	49	41	95½
2	4½	22	51½	42	98
3	7	23	53½	43	100½
4	9½	24	56	44	102½
5	11½	25	58½	45	105
6	14	26	60½	46	107½
7	16½	27	63	47	109½
8	18½	28	65½	48	112
9	21	29	67½	49	114½
10	23½	30	70	50	116½
11	25½	31	72½	51	119
12	28	32	74½	52	121½
13	30½	33	77	53	123½
14	32½	34	79½	54	126
15	35	35	81½	55	128½
16	37½	36	84	56	130½
17	39½	37	86½	57	133
18	42	38	88½	58	135½
19	44½	39	91	59	137½
20	46½	40	93½	60	140

MICRO MEASUREMENTS

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links.
0		0		0		0	
4	0-24	11	1-88	18	5-14	25	10-54
5	0-38	12	2-24	19	5-76	26	11-26
6	0-55	13	2-63	20	6-42	27	12-24
7	0-76	14	3-06	21	7-11	28	13-37
8	0-98	15	3-53	22	7-85	29	14-34
9	1-24	16	4-02	23	8-64	30	15-47
10	1-55	17	4-56	24	9-47	35	22-07

300
275



1894

1+52

1+29½

1+27½

100

Eight 91

W	E	W	E
			5+54½
2+48	2+50	5+52½	5+90
		5+28	5+04
2+28	2+25	5+02	4+80
1+96	1+98	4+78	
		3+74	
1+73	1+75	3+72	
		3+48	
1+46½	1+48½	3+24	
		3+22	
1+23	1+25	3+00	
		2+98	
1+02	1+04	2+74	
		2+72	

3+4+00
clean out
Doubt in R. street

Eight st

9+80	South line of str	10+85
Clean cut		10+80
7+6 1/2		10+91
7+6 2 1/2		10+59
		10+35
7+80		10+93
7+28		10+09
		10+07
7+0 1/2		9+85
7+0 2 1/2		9+83
		9+60
6+78		9+58
		9+55
6+52		9+99
		9+10 1/2
6+2 1/2		9+6 1/2
		8+85
6+0 1/2		8+89
		8+60
5+98		8+58



Eight

90	£		
		15x40	South line of H street
17x19			
		15x15	
12x88	12x90	15x10	
		14x90	
		14x88	
12x63	12x65	14x65	
		14x63	
		14x40	
12x87	12x99½	14x38	
		14x14½	
		14x12½	
		13x90	
		19x88	
11x60			South line of street
		12x65	
11x33	11x35	13x63	
	11x09	17x89½	
11x07		19x37½	

Eight St

18710	18715		
17788	17790	20743 1/2	20745 1/2
17768	17765	20719	20719
17741	17740	19740	19740
19761	19715	19710	19715
16788	16790	18781	18790
16769	16765	18781	18784
16738	16740	18781	18789
		18781	18789

19740 seen south side of E Street

Eight 24+99½

7

24+97½

22+18 22+20 24+75-

24+78

24+49

21+95-

24+47

21+90 24+25-

24+23

21+69 24+00 North end of trail

21+67 23+98

21+45-

21+40

Pla

23+20

South side F. west

21+20

21+18

22+98½

22+96½

20+95-

20+90

22+70

20+67½ 22+68

20+67½

22+44

22+42

Eight

EST

5-11

27+06

Clear

29+28

29+30

29+05

26+79 29+03

26+73

26+50

28+79

26+44

28+77

26+25

28+64

26+20

28+62

26+10

28+29

25+98

28+27

30+28

30+30

30+05

25+95

28+04 30+03

25+90

28+02

29+80

26+49

29+78

25+47

27+87

29+54

25+24 27+98

29+52

25+22

29+52

29+52

~~Eight~~

30+30
30+30

30+30
30+28

30+30
30+28

30+30
30+28

30+30
30+28

W

E

W

E

Just south side E street
34+60

32+59

32+51

32+54

32+34

34+99

34+95

34+10

34+08

32+22

Extra

33+85 1/2

32+10

33+84 1/2

32+08

33+60

31+84

33+58

31+84

Extra

31+84

31+60

33+50

31+58 1/2

33+35

33+93

on Eight St

30+60 DM

33+09

33+11

30+65

32+85

30+53

32+83

	39+40			
39+38				
	37+15	40+18		
238+19		40+16		
	36+91	39+93		
36+89		39+93		
	36+65	39+71		
36+63		39+69		
36+41		39+44		
36+39		39+44		
36+15		39+21	North line B meet	
36+13		39+18		
	35+91	38+40	North line B	
35+89		38+14		
	35+65	38+12		
35+63		37+90		
	37+64			
35+41		37+64		
35+39		37+64		

Eight

11

41+67

not completed yet

41+46

41+44

41+20

41+18

40+95

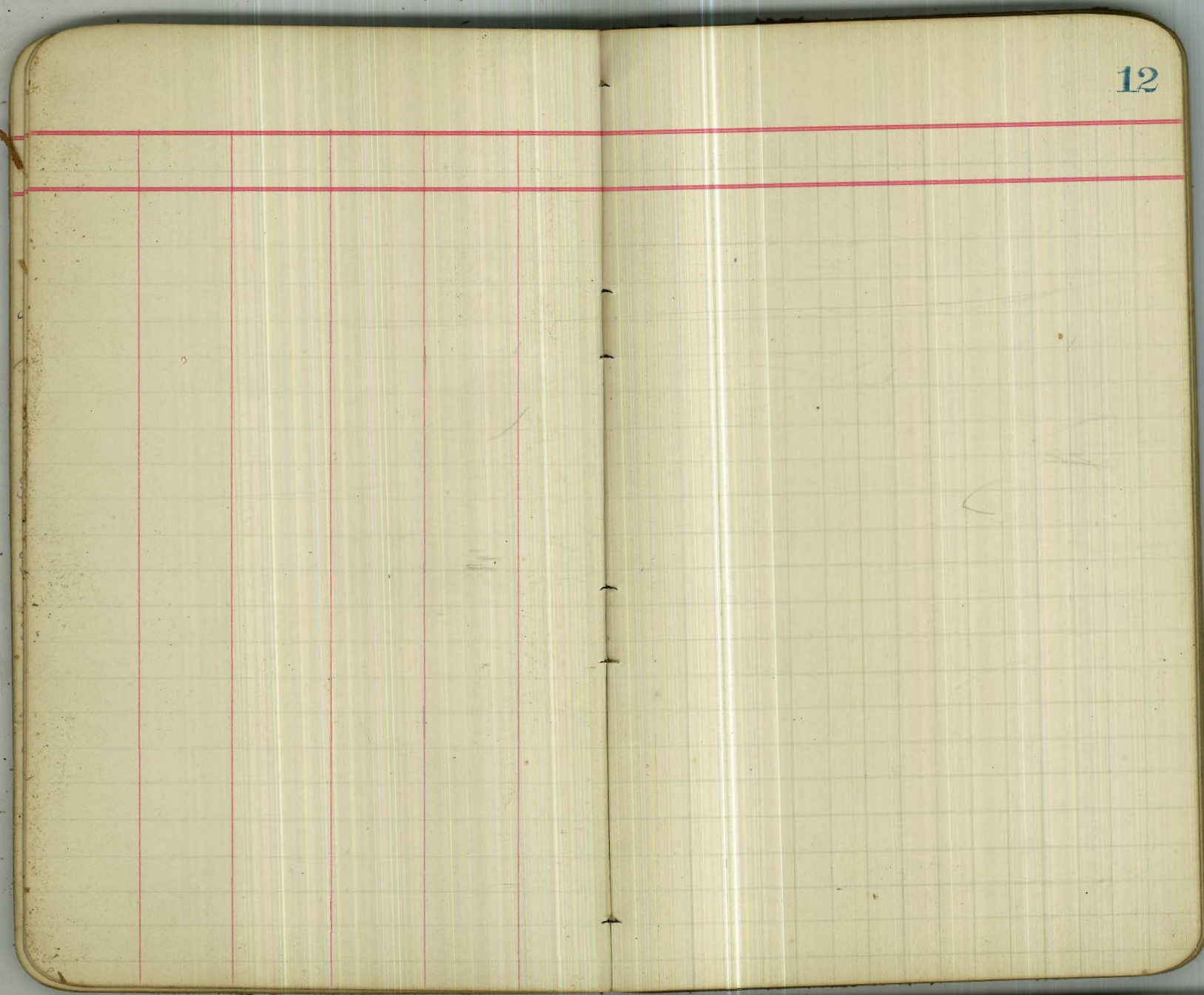
40+99

40+91

40+69

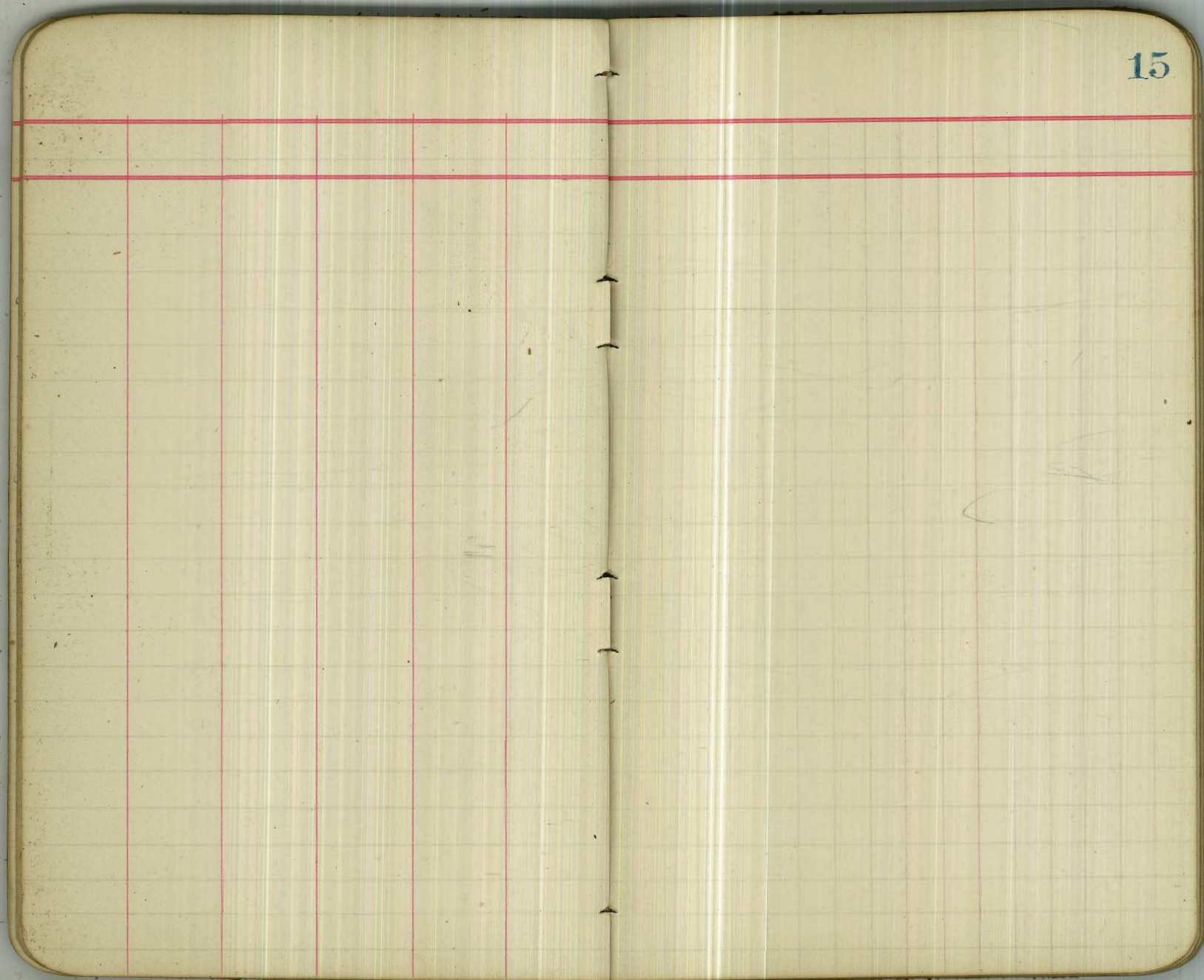
40+45

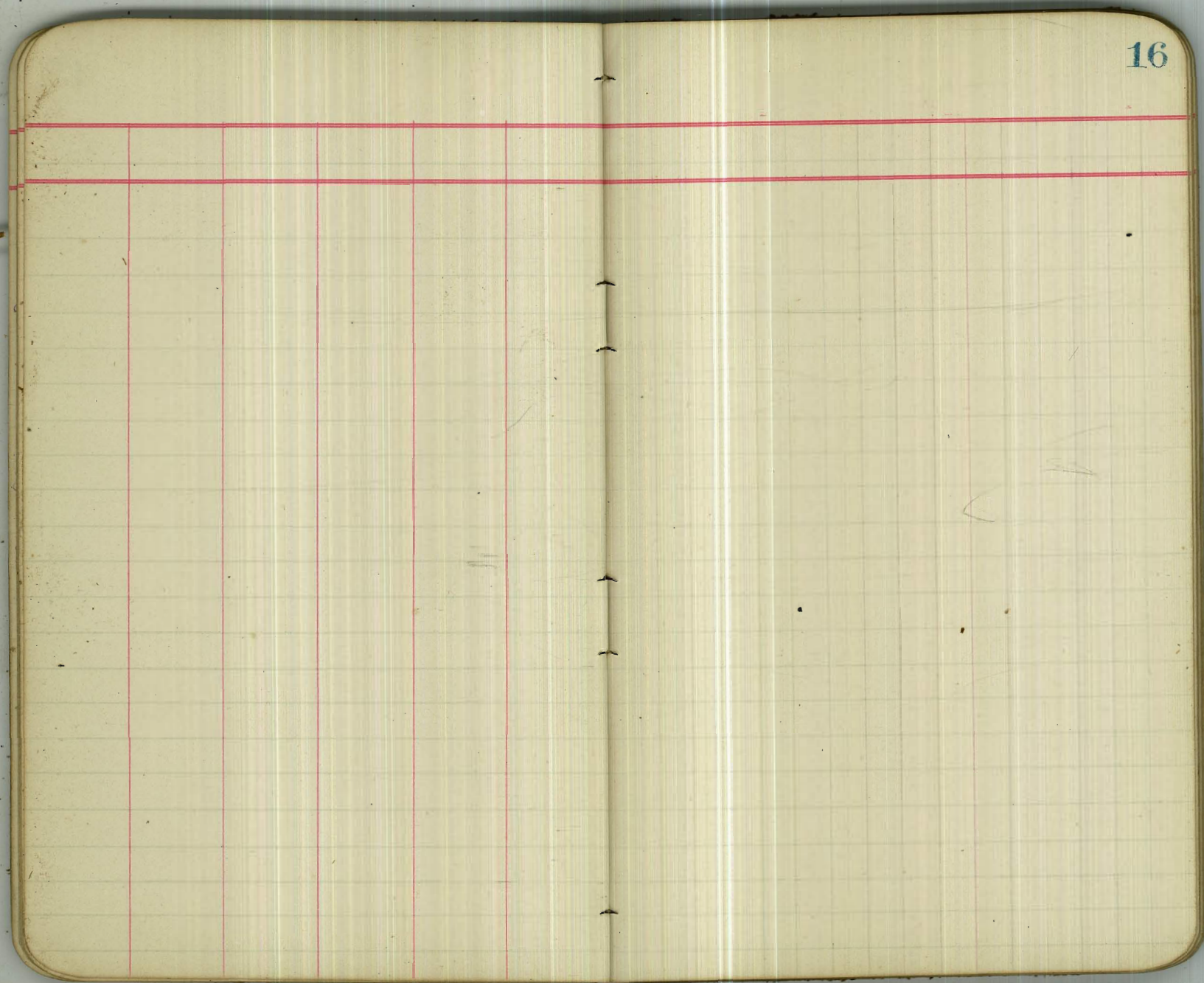
40+43



The image shows an open notebook with two pages. The left page is ruled with a grid of light blue lines. Two prominent red horizontal lines are drawn across the page, one near the top and one near the bottom. Five red vertical lines are drawn down the page, creating six columns of varying widths. The right page is also ruled with a grid of light blue lines. In the top right corner of the right page, the number '13' is printed in a blue, serif font. The notebook is bound in the center, and the pages are a light cream or yellowish color.

The image shows an open notebook with two pages. The pages are cream-colored and feature light blue horizontal ruling. The left page is divided into six columns by five vertical red lines. The right page is divided into two columns by one vertical red line. The notebook is bound in the center with visible stitching. The number '14' is printed in blue in the top right corner of the right page. The notebook is placed on a white surface.

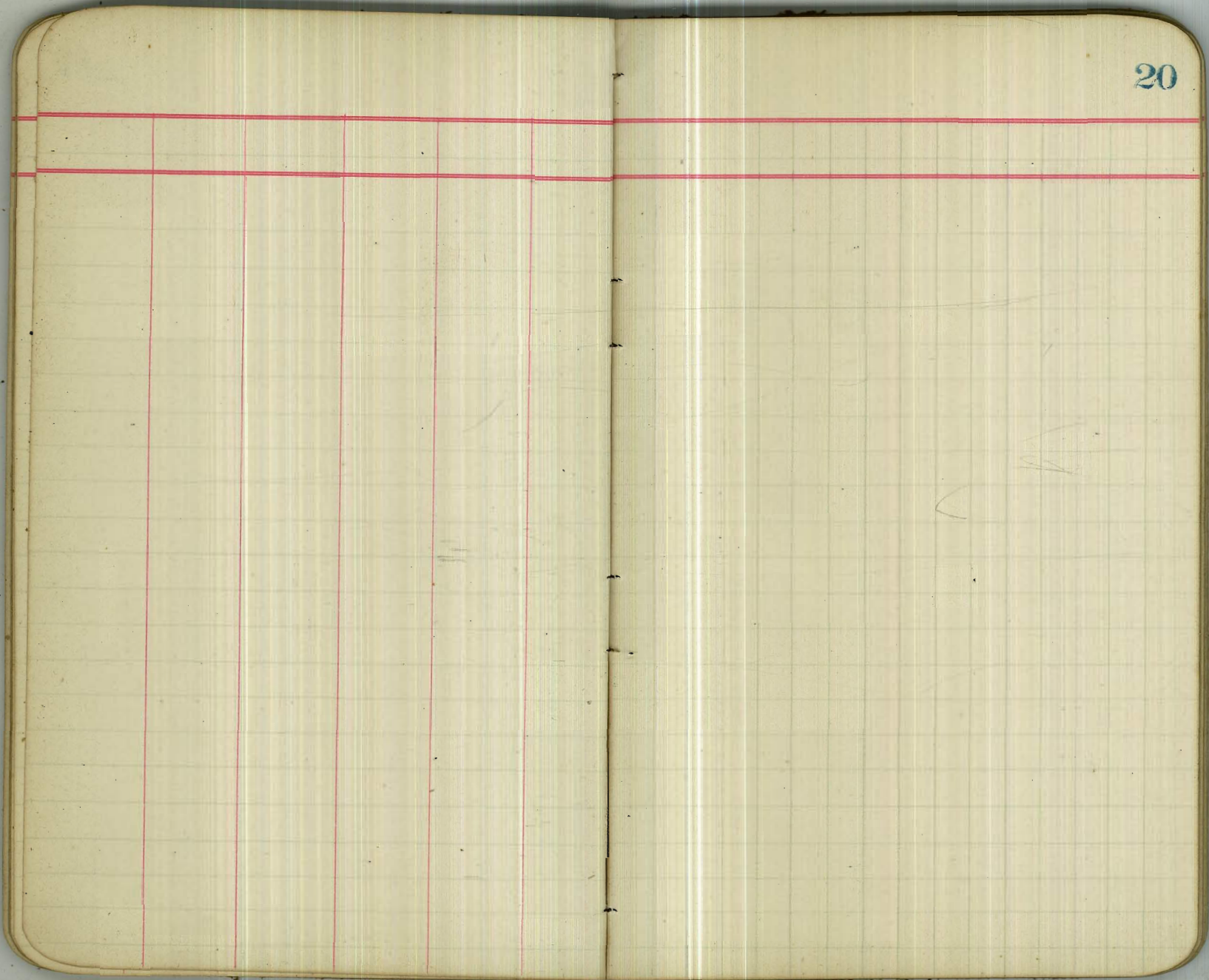




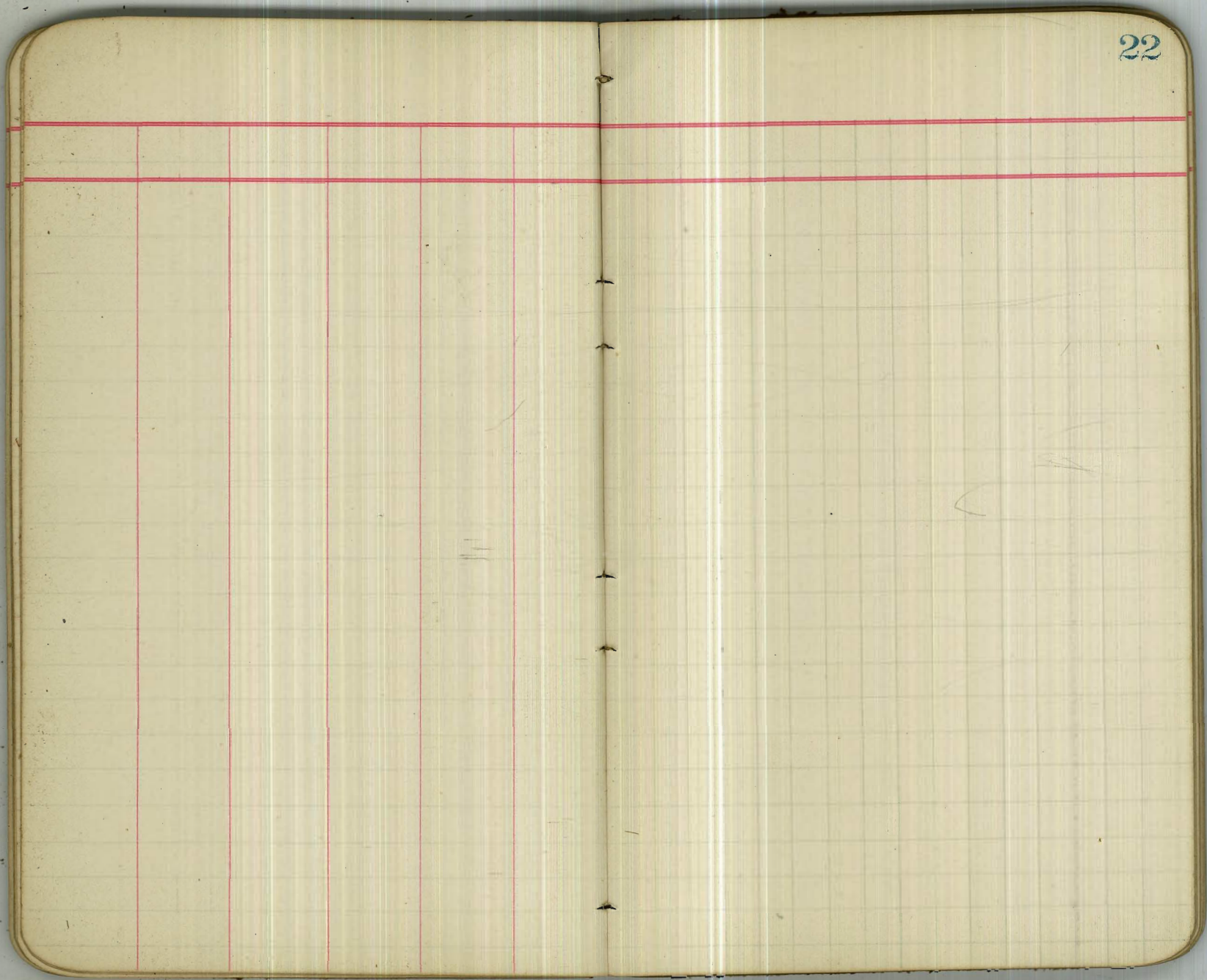
The image shows an open notebook with two blank pages. The pages are cream-colored and feature light blue horizontal ruling. The left page has a vertical red margin line on the left side, and the right page has a vertical red margin line on the right side. The notebook is bound in the center with visible stitching. The page number '17' is printed in the top right corner of the right page.

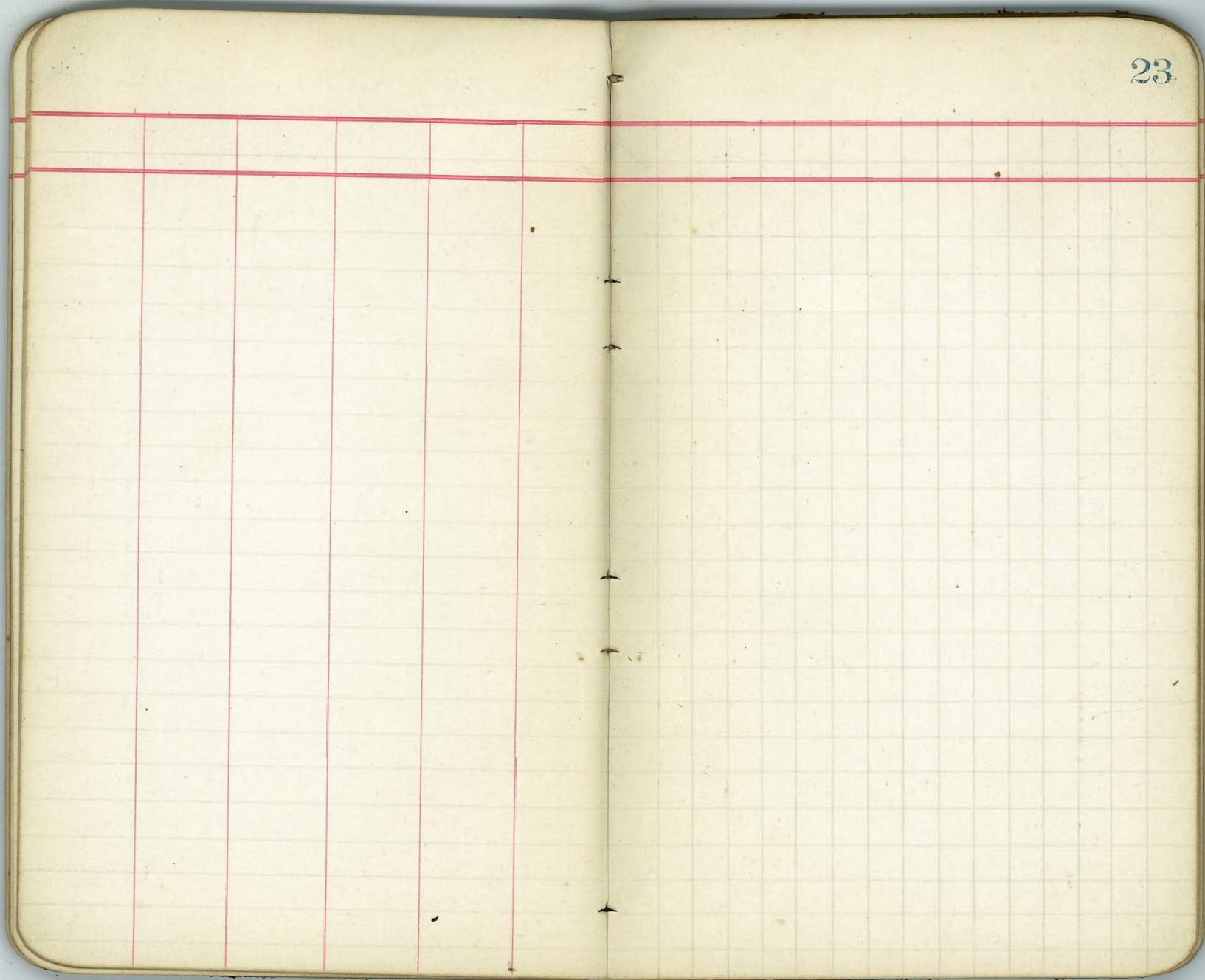
Ch. W. Hoses
950 and 992

The image shows an open notebook with two pages. The left page is ruled with a grid and has four vertical red lines that divide the page into five columns. The right page is also ruled with a grid but is otherwise blank. The number '19' is printed in the top right corner of the right page. The notebook is bound in the center, and the pages are a light cream color.

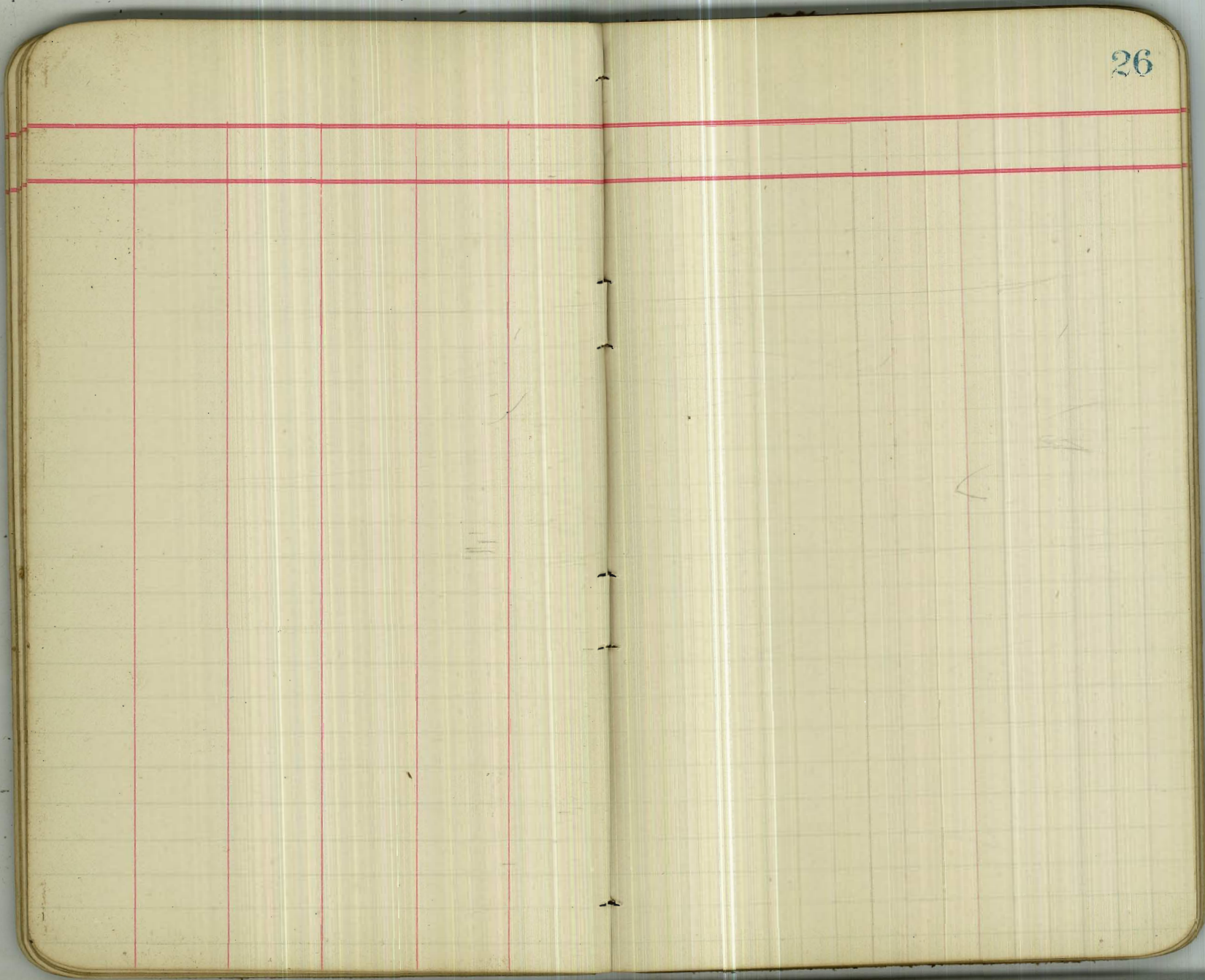


The image shows an open notebook with two pages. The left page is ruled with a grid of light blue lines. Two vertical red lines are drawn on the left page, creating three columns. The right page is also ruled with a grid of light blue lines. In the top right corner of the right page, the number '21' is printed in blue ink. The notebook is bound in the center, and the pages are slightly aged and yellowed.

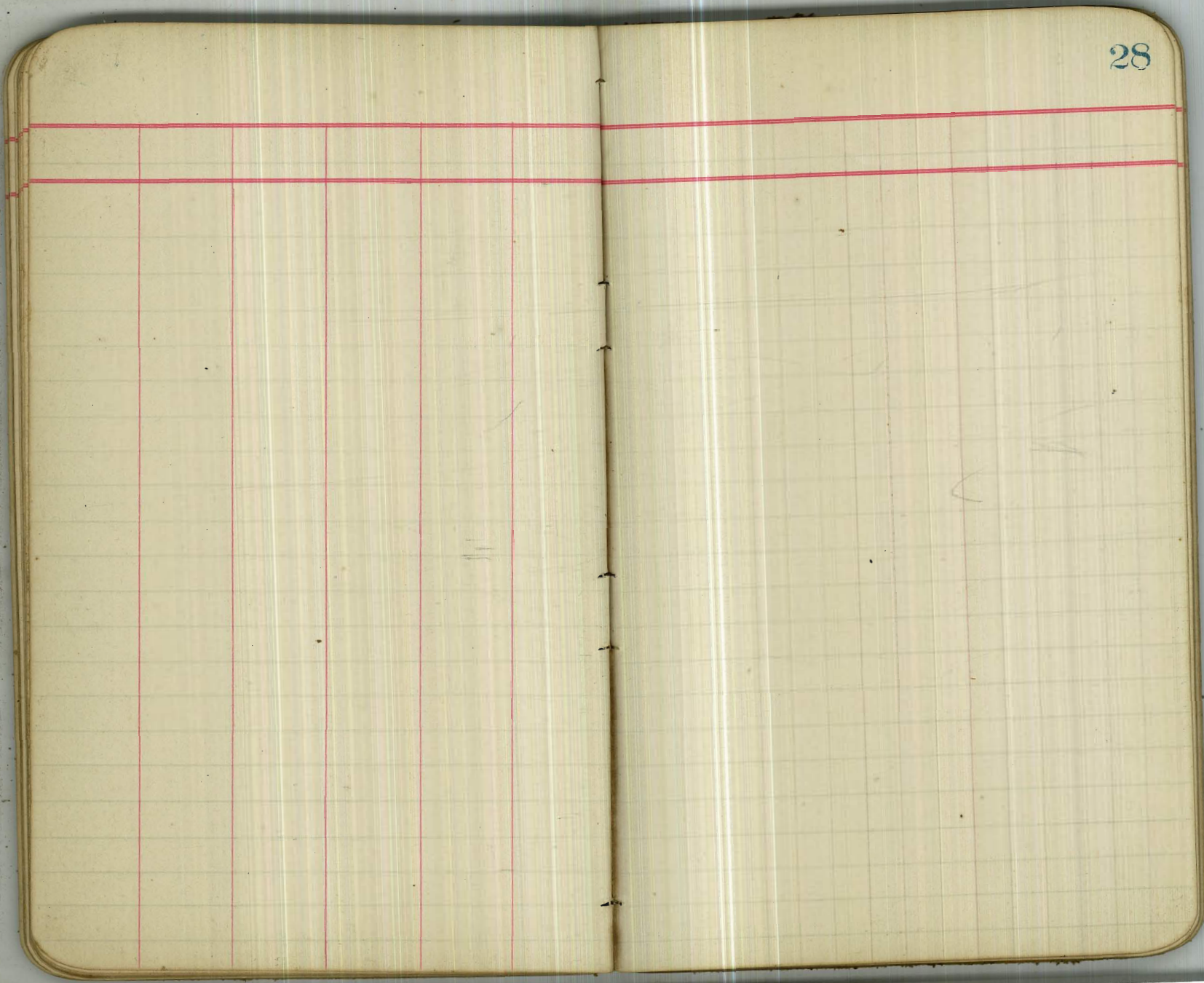


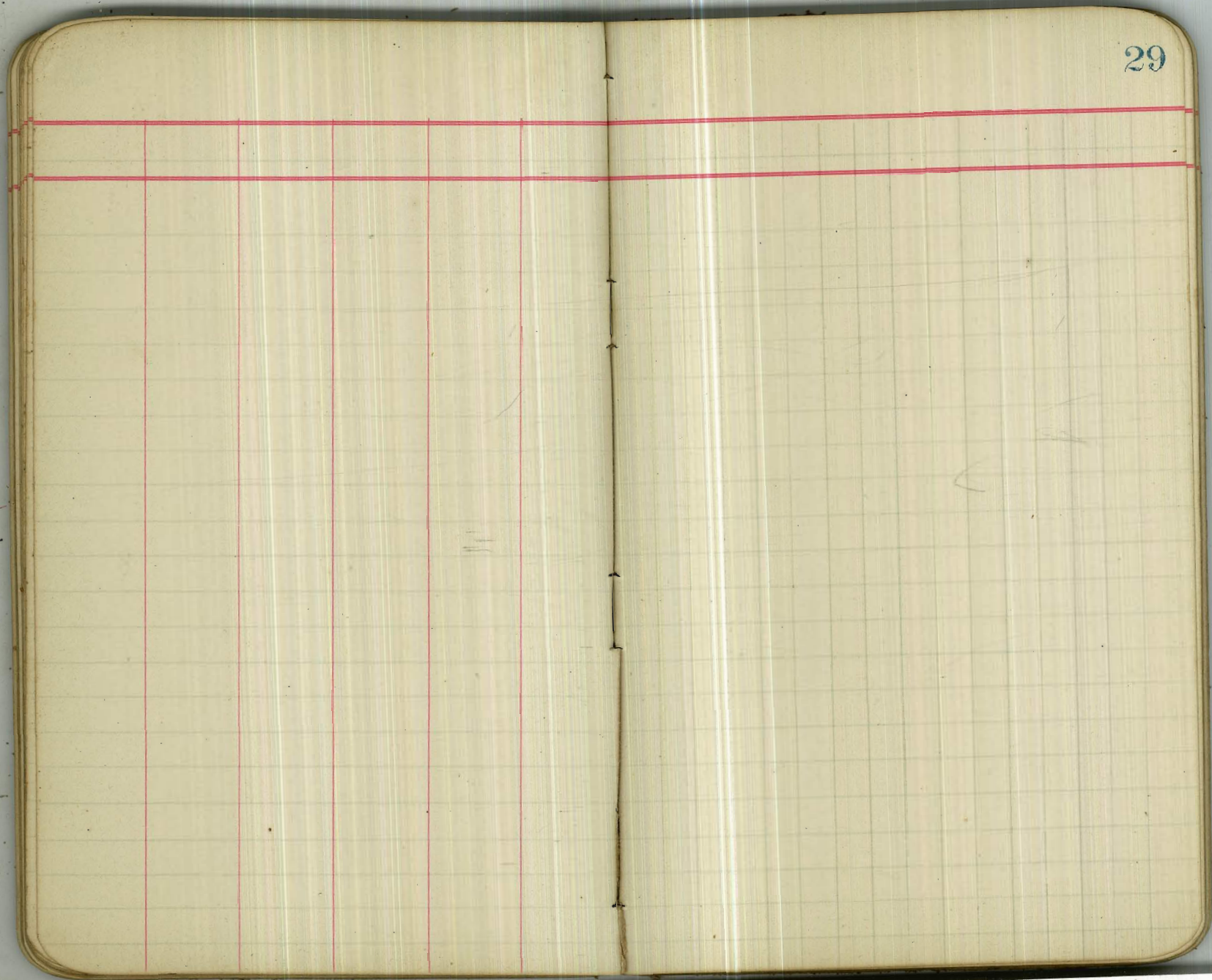


The image shows an open notebook with two pages. The left page is ruled with a grid and has five vertical red lines, creating six columns. The right page is ruled with a grid and has one vertical red line, creating two columns. The number '25' is written in the top right corner of the right page. The notebook is bound in the center, and the pages are slightly aged and yellowed.



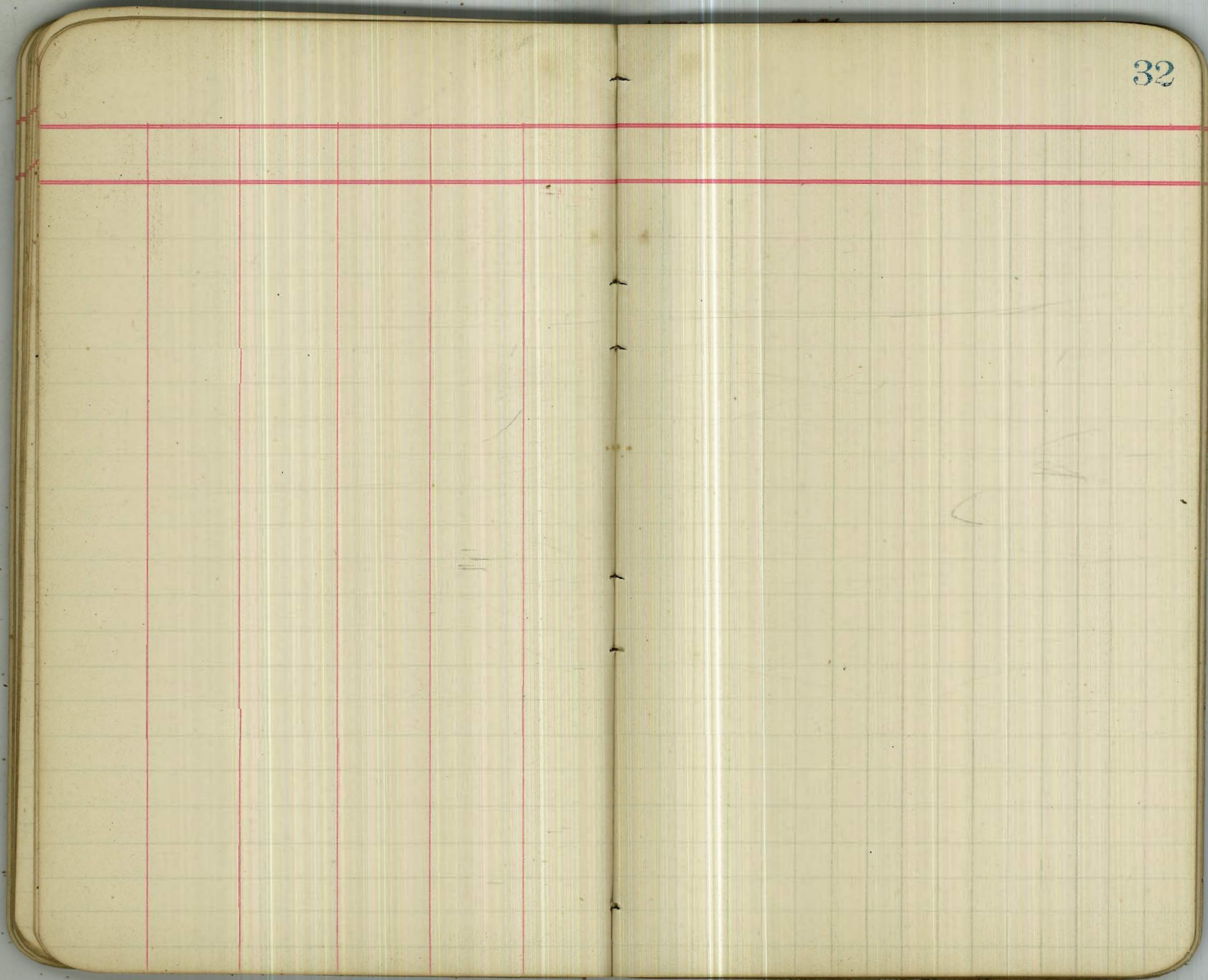
The image shows an open notebook with two pages. The left page is ruled with a grid of 6 columns and 15 rows, with red lines for the columns and blue lines for the rows. The right page is also ruled with a grid of 15 columns and 15 rows, with blue lines for both. The number '27' is written in the top right corner of the right page. The notebook is bound in the center, and the pages are slightly aged and yellowed.

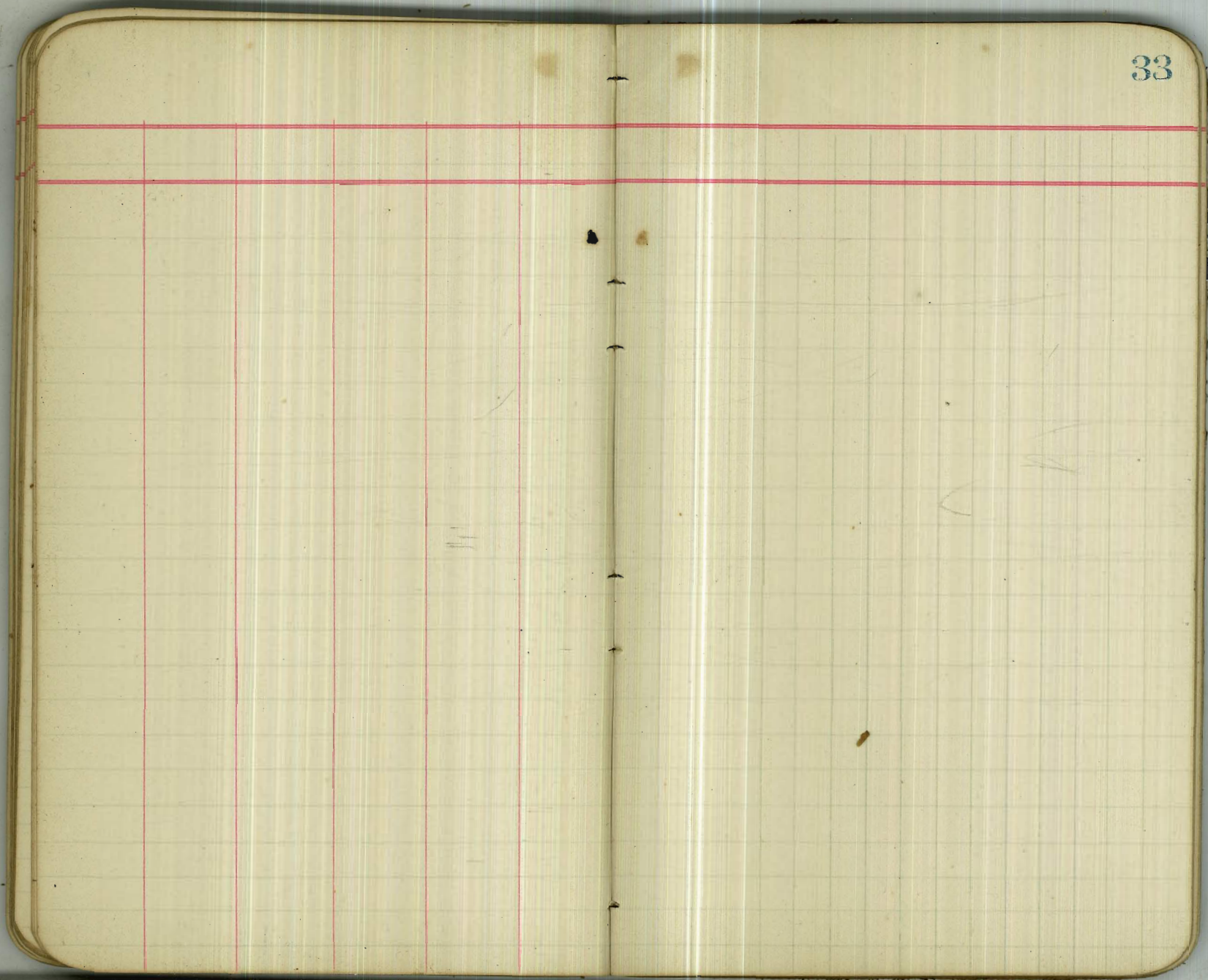




The image shows an open notebook with two pages. The left page is ruled with a grid of light blue lines. Two vertical red lines are drawn on the left page, creating three columns. The right page is also ruled with a grid of light blue lines. In the top right corner of the right page, the number '30' is printed in a dark blue or black font. The notebook is placed on a light-colored, textured surface.

The image shows an open notebook with two pages. The left page is ruled with a grid and has two vertical red lines. The right page is ruled with a grid and has the number 31 in the top right corner. The notebook is bound in the center, and the pages are slightly aged and yellowed.

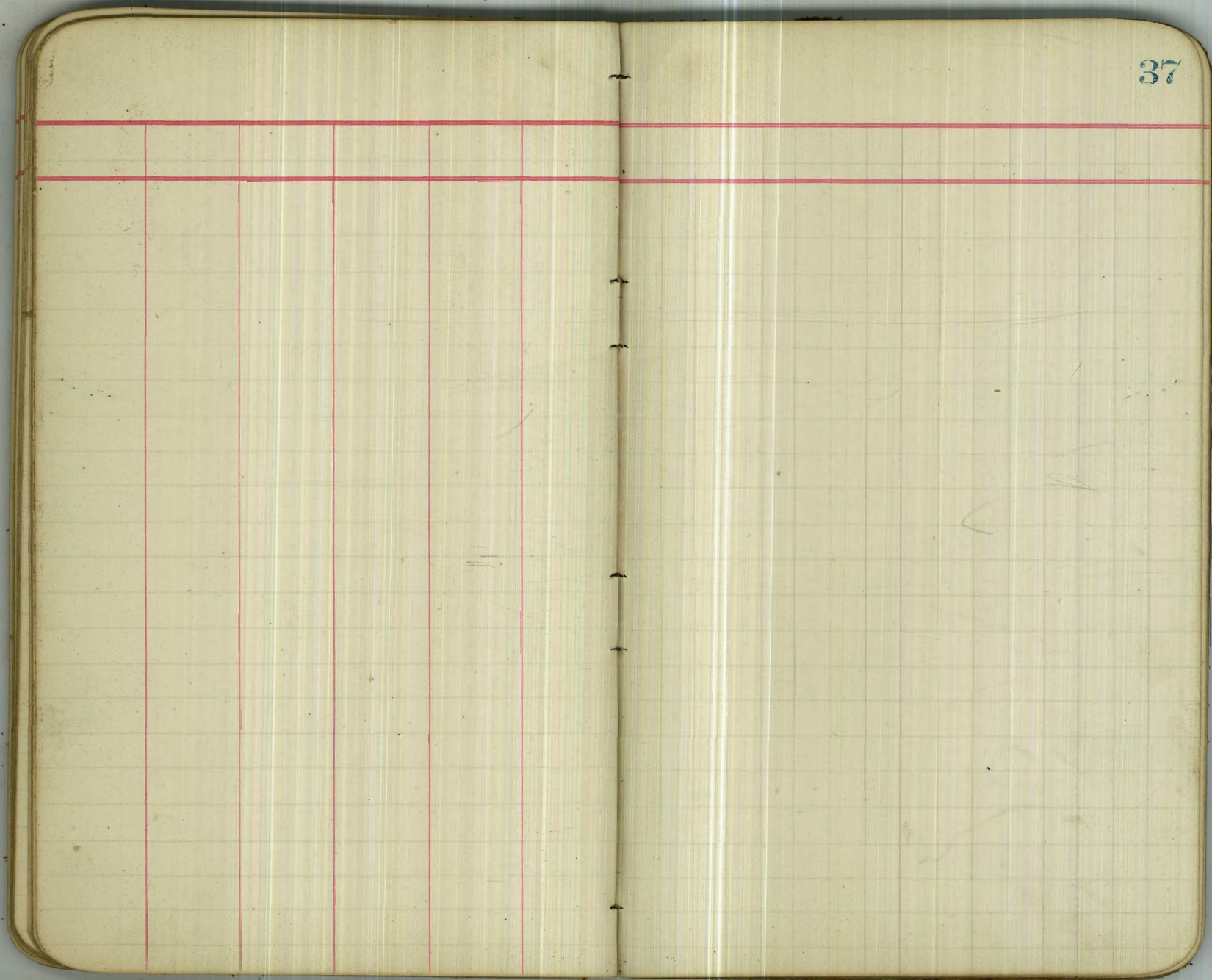




The image shows an open notebook with two pages. The pages are cream-colored with light blue horizontal ruling. The left page has a red margin line on the left side and a red header line near the top. The right page has a red header line near the top. The notebook is bound in the center with visible stitching. There are some dark spots near the binding on the top edge of the pages.

The image shows an open notebook with two pages. The left page is ruled with a grid and has four vertical red margin lines. The right page is ruled with a grid and has the number 35 in the top right corner. The notebook is bound in the center, and the pages are slightly aged and yellowed.

The image shows an open notebook with two pages. The left page is ruled with a red vertical margin line on the left side and a red horizontal header line near the top. The right page is numbered '36' in the top right corner. Both pages are cream-colored with light blue horizontal ruling. The notebook is bound in the center, and the pages are slightly aged.



Sept 18

38

56+88 last ripe

56+86

52+47

55+84

52+47 - E. Tray

56+40

52+10

56+88

52+08

55+91

51+60

55+89

51+58

55+40

51+10

55+88

51+08

54+91

50+60

54+89

50+58

54+40

54+88

^{Im}
49+80

^P
53+90

South line Cedar

49+52

49+54

53+85

49+31

53+83

49+49

53+10

48+81

53+08

48+99

52+91

52+89

Yerwin St

39

	42x50	48x91
43+48	48 x29	
	48x00	49+81
42+98	47x99	
		47x21
42+20	47+29	45+80
	41+95-45+98	
41+90		
	41+71	45²x00 south side
41+69		Ash in
	41+45	45x96
41+40	45+94	
	41+21	45+50
41+19	45+48	
	40+95	45x00
40+90	44+98	
	40+70	44x50
40+68	44+48	
	40+46	44+00
40x44	43+98	

Seventh Lt

	87x14	40x21	
	37x12	40x19	
	36x90	39x95	
	35x88	39x99	
	36x65	39x90	
	36x63	39x68	
	36x41	39x46	
	36x89	39x44	
	35x15	39x20	North line B steel
	35x10	39x18	
	35x91		
	35x89	38x40	
	35x65		
	35x68	38x16	
	35x41	38x14	
	35x89	37x90	
		37x88	
		37x69	
		37x64	
		37x40	
		37x38	
		37x35	
		37x34	
		37x33	
		37x32	
		37x31	
		37x30	
		37x29	
		37x28	
		37x27	
		37x26	
		37x25	
		37x24	
		37x23	
		37x22	
		37x21	
		37x20	
		37x19	
		37x18	
		37x17	
		37x16	
		37x15	
		37x14	
		37x13	
		37x12	
		37x11	
		37x10	
		37x9	
		37x8	
		37x7	
		37x6	
		37x5	
		37x4	
		37x3	
		37x2	
		37x1	

C 3/2

$34+60$
 Imp

34x38

34x34

37x35

Levy

41

	31+60	34+10
31+58	34+08	
	33+84	33+85
	33+81	
	33+59	33+61
	33+33	33+95
	33+10	
	30+55	33+08
30+50		32+85
	32+89	
	30+90	32+60
30+28	32+58	
	32+35	
	30+05	32+93
30+03		32+11
	32+09	
	29+80	31+84
29+78	31+82	

Sevenths

42

W	E	W	E
29		29	56
29	00	29	54
			29
	29	29	28
26	78		
	26		29
26	48	29	02
	26		28
26	29	28	98
	26		
25	98		28
	25		52
25	78		28
	25		28
25	49		28
	25		04
25	24		27
	25		78

Levent ~~St~~

25+00

24+98

24+75

24+70

24+50

24+48

24+25

24+23

24+00

23+98

22+20
ce

South line F. Med

22+98

22+94

22+70

22+68

Leventh 57

44

22+44

~~20+42~~

22+20

22+18

21+95

21+90

21+69

21+69

21+44

21+42

21+20

21+18

20+95

20+93

20+69

20+67

Genant St

45

17+89
17+87

20+44

20+42

17+84
17+82

20+21

20+19

17+89 1/2
17+87 1/2

19+40 clear south line of G street

17+14 1/2
17+12 1/2

19+14

19+14

16+99 1/2
16+87 1/2

18+89

18+87

16+85 1/2
16+69

18+65

18+60

16+40
16+38

18+40

18+38

18+15

18+13

Seven A

0000 cut

15+97

south line H street

13+15-

13+13

15+15-

15+13

12+90

12+88

14+90

14+88

12+92 1/2

12+92 1/2

14+86-

14+83

12+40

12+98

14+40

14+88

gleam
11+64

11+64

14+12 1/2

14+14 1/2

11+94

11+99 1/2

13+88

13+90

11+89

11+87

13+89

13+85-

10+84

10+82

13+89 1/2

13+99 1/2

Seventh St

47

	Taken	
	10+61	
	10+69	
8+60		
8+58		10+95
	10+93	
7+80		10+09½
9+80	10+09½	
	9+85	
7+55	9+80	
7+53		
		9+60
7+90	9+58	
7+28		
		9+35½
7+05½	9+33½	
7+03½		
6+80		9+09
6+98	9+07	
6+51½		8+85-
	8+83	

Sept 91 -
Leventh 91 -

No 544 left 2

90 8+25 5+90

3+29 5+22

2+99 5+04

2+97 5+02

2+95 5+80

2+93 5+78

2+50 5+54

2+48 5+52

2+24

2+22 5+30

2+00 5+28

1+98 5+05

1+94 5+03

1+92 4+80 North line - K street

1+50 4+98

1+48

4+00 South side K street
Clean out

1+24 3+94

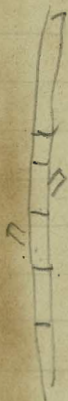
1+24 East 3+92

1+04 3+50

1+02 3+48

1 for H & J Block 95

Farguar



2
if
re

89
400

TRAVERSE TABLE FOR TRANSIT BOOK,
From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.98	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.04	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.75	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.86	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	DEGREES.		¼ DEGREE.		¼ DEGREE.		¼ DEGREE.		Degrees.
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	

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