

City  
9<sup>th</sup> Street.

9  
and  
TRANSIT

Front Street

F.B. 712

712

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	2 $\frac{1}{2}$	21	49	41	95 $\frac{1}{2}$
2	4 $\frac{2}{3}$	22	51 $\frac{1}{2}$	42	98
3	7	23	53 $\frac{2}{3}$	43	100 $\frac{1}{2}$
4	9 $\frac{1}{3}$	24	56	44	102 $\frac{2}{3}$
5	11 $\frac{2}{3}$	25	58 $\frac{1}{2}$	45	105
6	14	26	60 $\frac{2}{3}$	46	107 $\frac{1}{2}$
7	16 $\frac{1}{3}$	27	63	47	109 $\frac{2}{3}$
8	18 $\frac{2}{3}$	28	65 $\frac{1}{2}$	48	112
9	21	29	67 $\frac{2}{3}$	49	114 $\frac{1}{2}$
10	23 $\frac{1}{3}$	30	70	50	116 $\frac{2}{3}$
11	25 $\frac{2}{3}$	31	72 $\frac{1}{2}$	51	119
12	28	32	74 $\frac{2}{3}$	52	121 $\frac{1}{2}$
13	30 $\frac{1}{3}$	33	77	53	123 $\frac{2}{3}$
14	32 $\frac{2}{3}$	34	79 $\frac{1}{2}$	54	126
15	35	35	81 $\frac{2}{3}$	55	128 $\frac{1}{2}$
16	37 $\frac{1}{3}$	36	84	56	130 $\frac{2}{3}$
17	39 $\frac{2}{3}$	37	86 $\frac{1}{2}$	57	133
18	42	38	88 $\frac{2}{3}$	58	135 $\frac{1}{2}$
19	44 $\frac{1}{3}$	39	91	59	137 $\frac{2}{3}$
20	46 $\frac{2}{3}$	40	93 $\frac{1}{2}$	60	140

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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



W	E	W	E
		5x05	
	2+75	5x03	
2+79		4x77	4x79
	2x49		
2+47		4x67	
	2x24	4x55	
2+22			
	2x00	(4x00)	
1x98		3+75	
	1x75	3+78	
1+73		3+50	
	1x50	3+48	
1+48		8+24	
	1+25	8+22	
1+29		9+00	
	1x04	2+98	
1x02			

Smith et

2

7+05			
7+09		9+93	
	6+80	9+93	
6+98		9+10	
	6+55	8+08	
6+59		8+84	
6+90		8+81	
6+28		8+69	
	6+14		
6+02			
	6+79		
6+77			
	6+55		
5+53			
	5+29		
5+29			

9m/1p  
7+80

Clear  
11+60

Smith

3

	11+94		
11+92			13+90
	11+10	13+88	
11+08			13+65
	10+85	13+69	
10+83			13+40
	10+60	13+38	
10+58			13+15
	10+35	13+13	
10+23			12+90
	10+10	12+88	
10+08			12+64
	9+85	12+62	
9+83			12+41
	9+60	12+39	
9+58			

stated from 13+90

North St

4

W

E

16x40

16x38

plus  
15x40

15x15

15x10

14x91

14x89

14x65

14x63

14x40

14x38

14x15

14x13

North

5

18+40

18+38

18+15

18+19

17+90

17+88

17+65

17+63

17+40

17+38

17+14

17+12

16+90

16+88

14+65

14+63

Wp to Saturday Night 19+90

Smith

6

20+99

20+95 Monday

20+99

20+70

20+68

20+45

20+43

20+20

20+18

19+40

19+16

19+14

18+91

18+89

18+64

18+62



20+20

Insp

*Handwritten signature*

	22+95-		24+25-
22+93		24+23	
	22+80		25+99
22+68		25+97	
			25+95-
	22+45	25+93	
22+40			25+50
		25+48	
	22+20		25+25-
22+18		25+23	
			25+00
	21+97	24+98	
21+95-			24+75-
		24+93	
	21+69		24+50 Hand
21+67		24+48	
	21+45		24+25-
21+40		24+23	
			24+00
	21+20	23+58	
21+18			

Pipe ends on D  $\frac{24}{11}$

W. H. H. H.

8

Group

80x78

	28x54		80x53-
28x52		90x59	
	28x30		80x31
28x28		80x29	
	28x03-		80x04
28x03		80x04	
	29x80		29x80
29x78		29x78	29x80
			29x58
		29x54	
			29x30
		29x28	
	26x75-		29x05
26x73		29x03	
	25x50		28x80
25x48		28x78	

29x00

North St

WN	E	WN	E
	35+85		36+90
35+80		36+88	
	35+81		36+85
35+79		36+83	
	35+85		36+80
35+80		36+88	
	35+80		36+86
35+78		36+84	
	32+85		35+90
32+84		35+88	
	32+82		35+85
32+80		35+83	
	32+86		35+80
32+84		35+88	
	32+80		
32+88		34+80	
	31+85		34+85
31+83		34+83	
	31+81		34+81
31+82		34+89	

North

39171

39169

39145-4

Jan  
42+20

39143

39121 41+93

41+95

39119

41+68

41+70

Jan  
38+40

41+44

41+46

41+20

38+142 41+18

38+126

40+95

37+90 40+93

37+88

40+90

37+95 40+68

37+93

40+45

37+40 40+43

37+88

40+20

37+15 40+18

37+13

39+95

39+93

North

	46180	51x11
46198	51x29	
	50x20	
<div style="border: 1px solid black; padding: 2px;">Jan 46x00</div>	50x58	
	45x95	<div style="border: 1px solid black; padding: 2px;">Jan 49x80</div>
45x98		
	45x50	49x56
45x48	49x54	
	45x20	49x30
44x98	49x28	
	44x50	48x80
44x48	48x98	
	44x00	48x30
43x98	48x28	
	43x50	49x80
43x48	47x78	
	43x00	47x31
42x98	47x29	

Ninth street

55x40

55+38

54+90

54+88

54+91

54+39

53+60

Taken down by

53+36

53+34

53+10

53+08

52+60

End of pipe on Ninth St

52+58

56+90

52+11 55+88

52+09

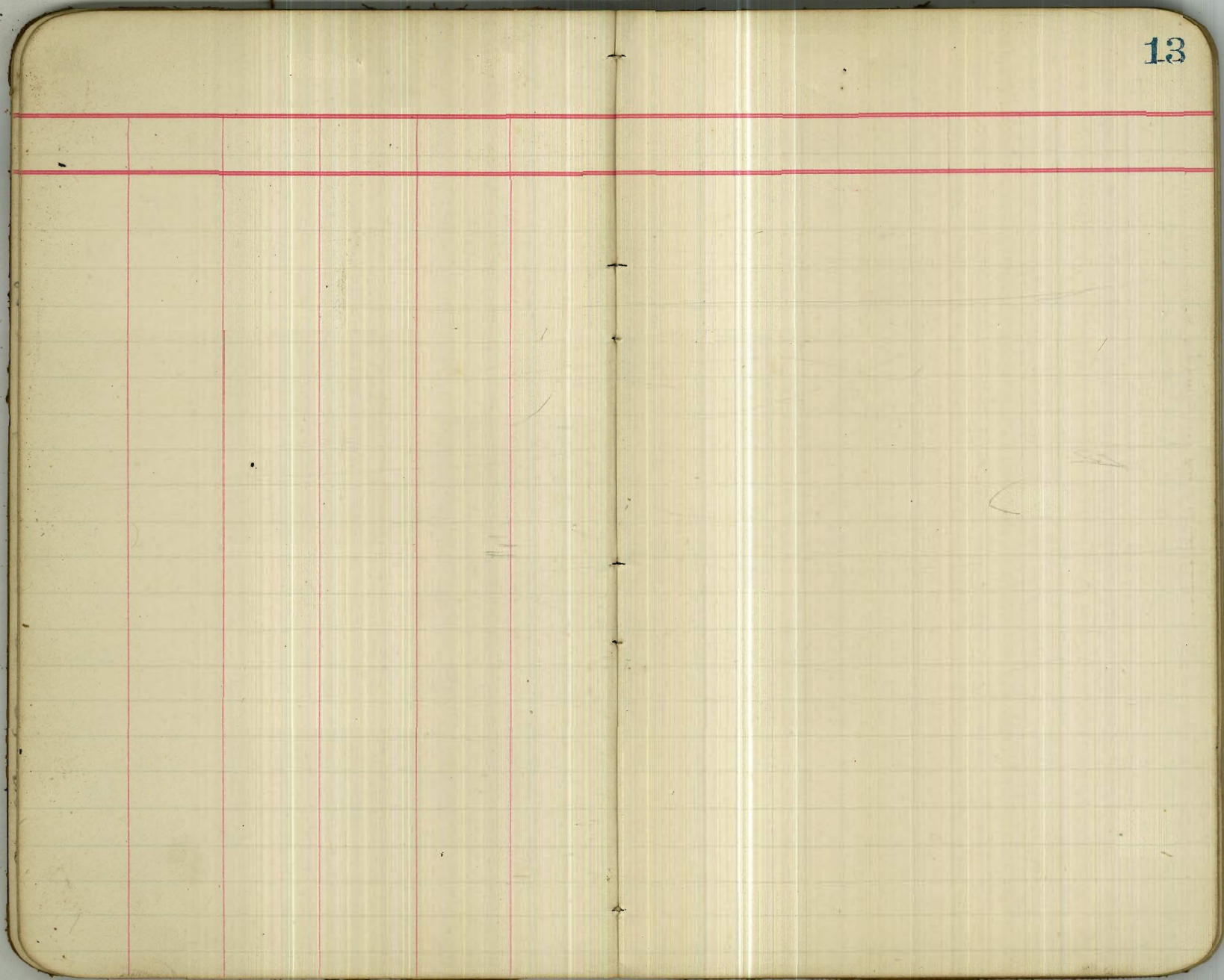
55+41

51+60 55+39

51+58

55+90

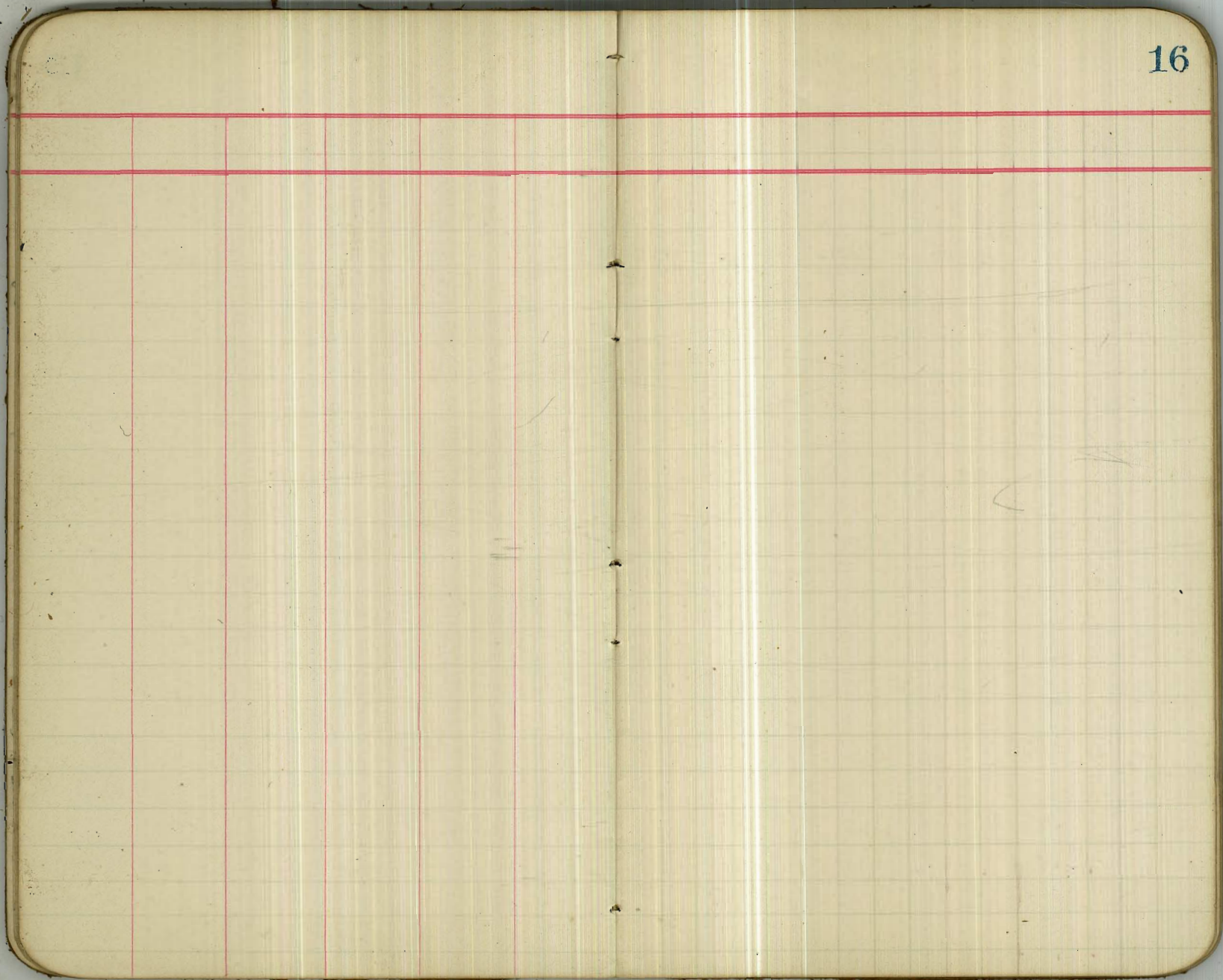
55+88











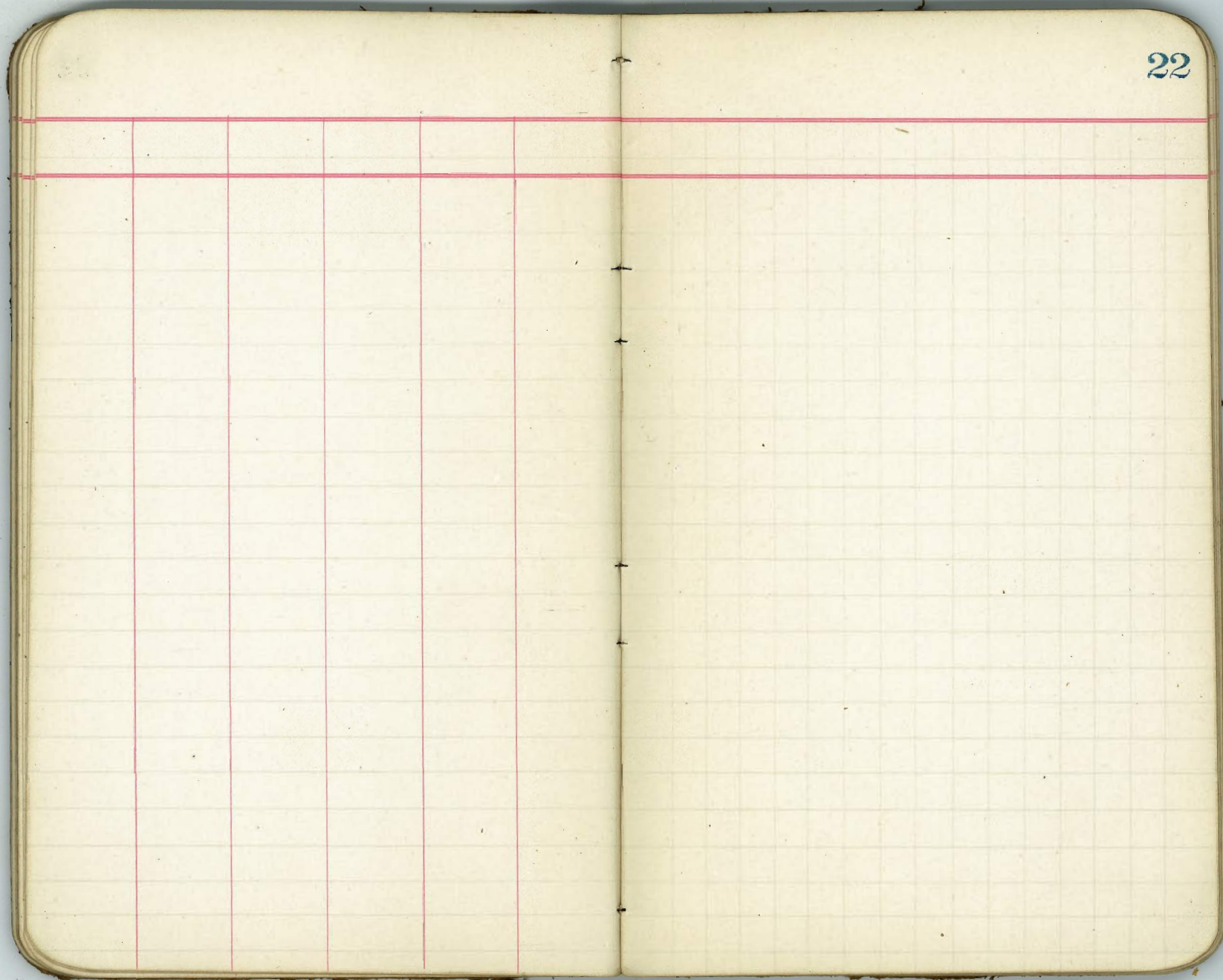


18

The image shows an open notebook with two pages. The left page is ruled with a grid and has four vertical red lines, creating five columns. The right page is ruled with a grid and has the number '19' in the top right corner. The notebook is placed on a light-colored surface.

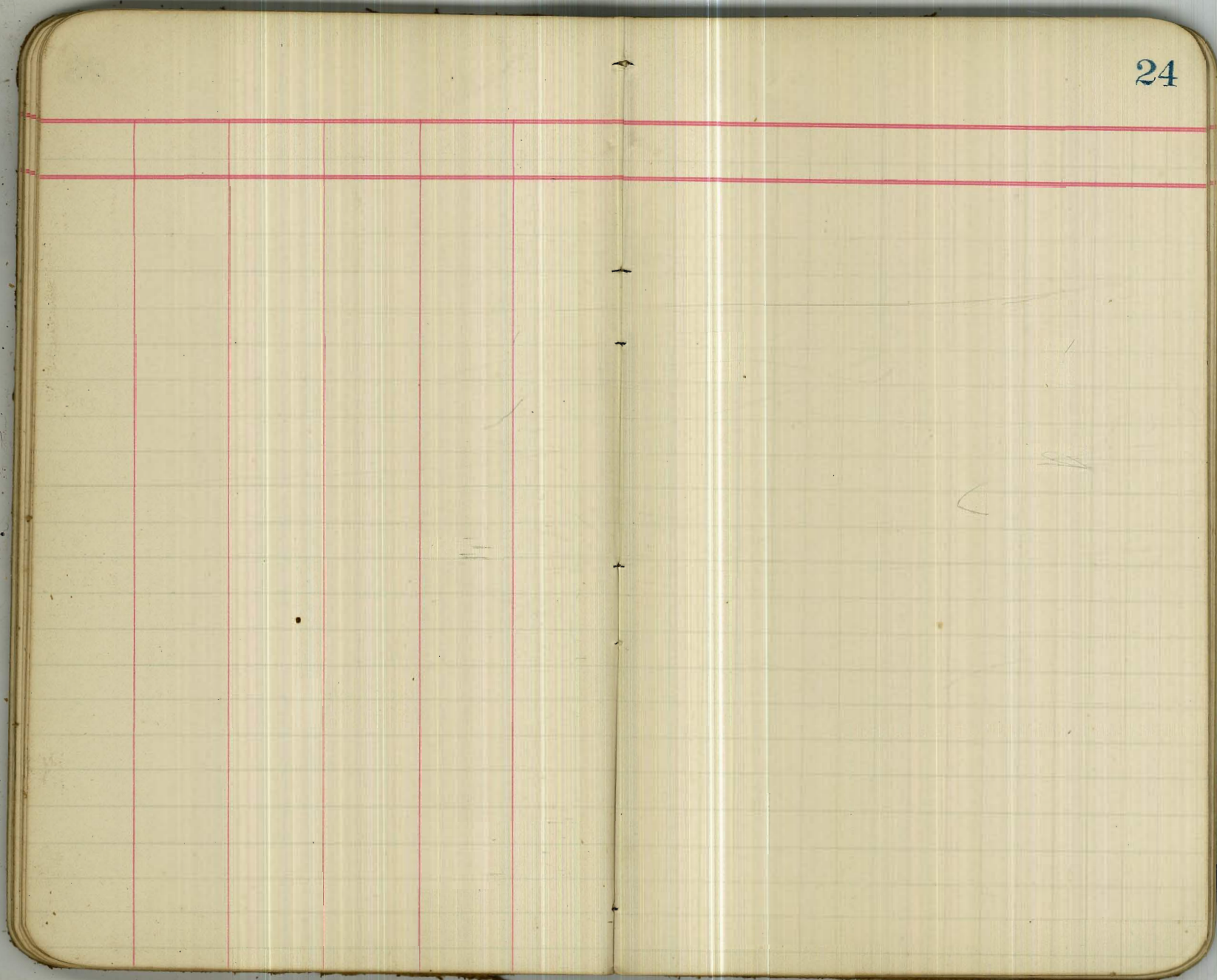








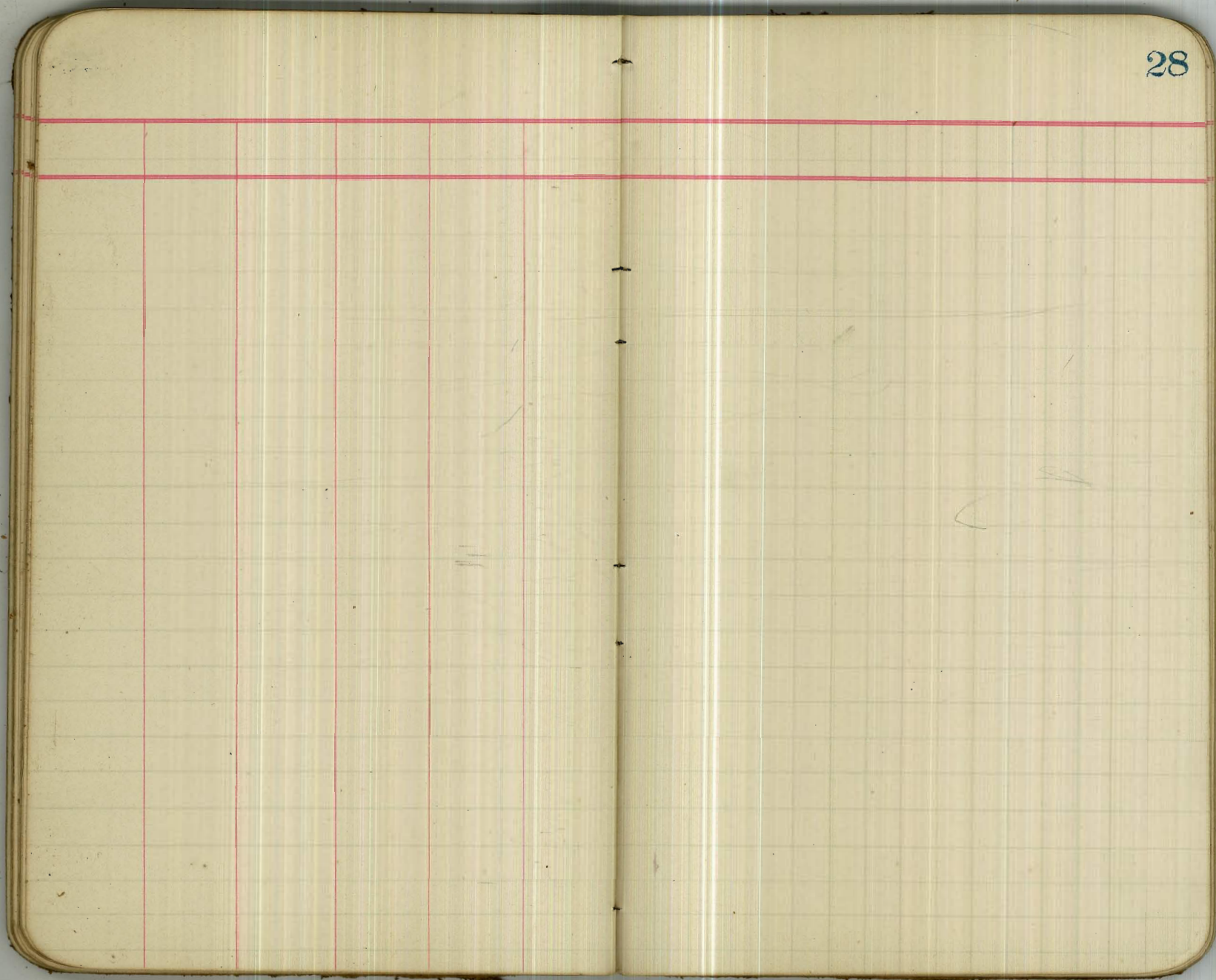
The image shows an open notebook with two pages. The left page is ruled with a grid and has two vertical red lines near the left margin. The right page is ruled with a grid and has the number '23' printed in the top right corner. The notebook is placed on a light-colored surface.









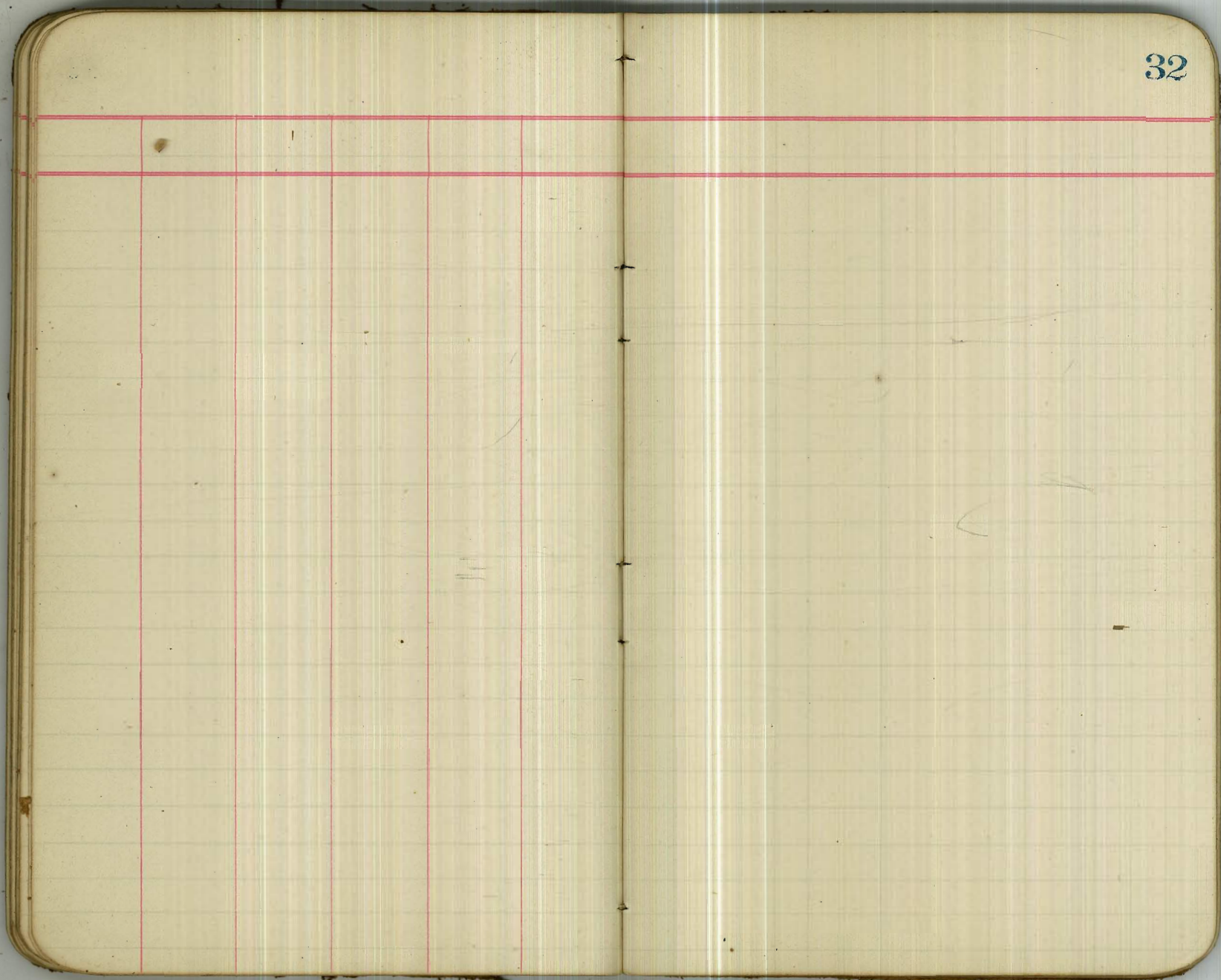


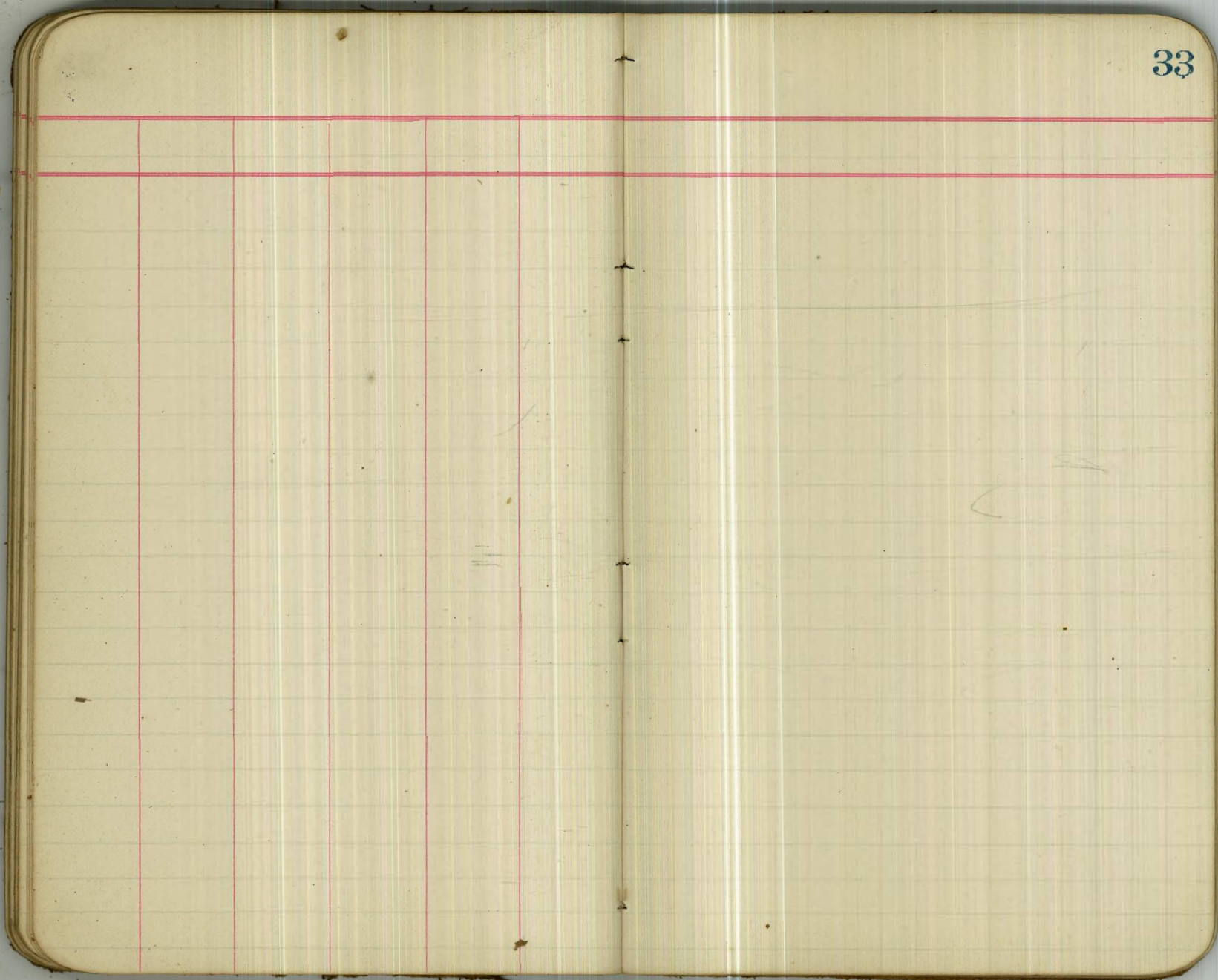


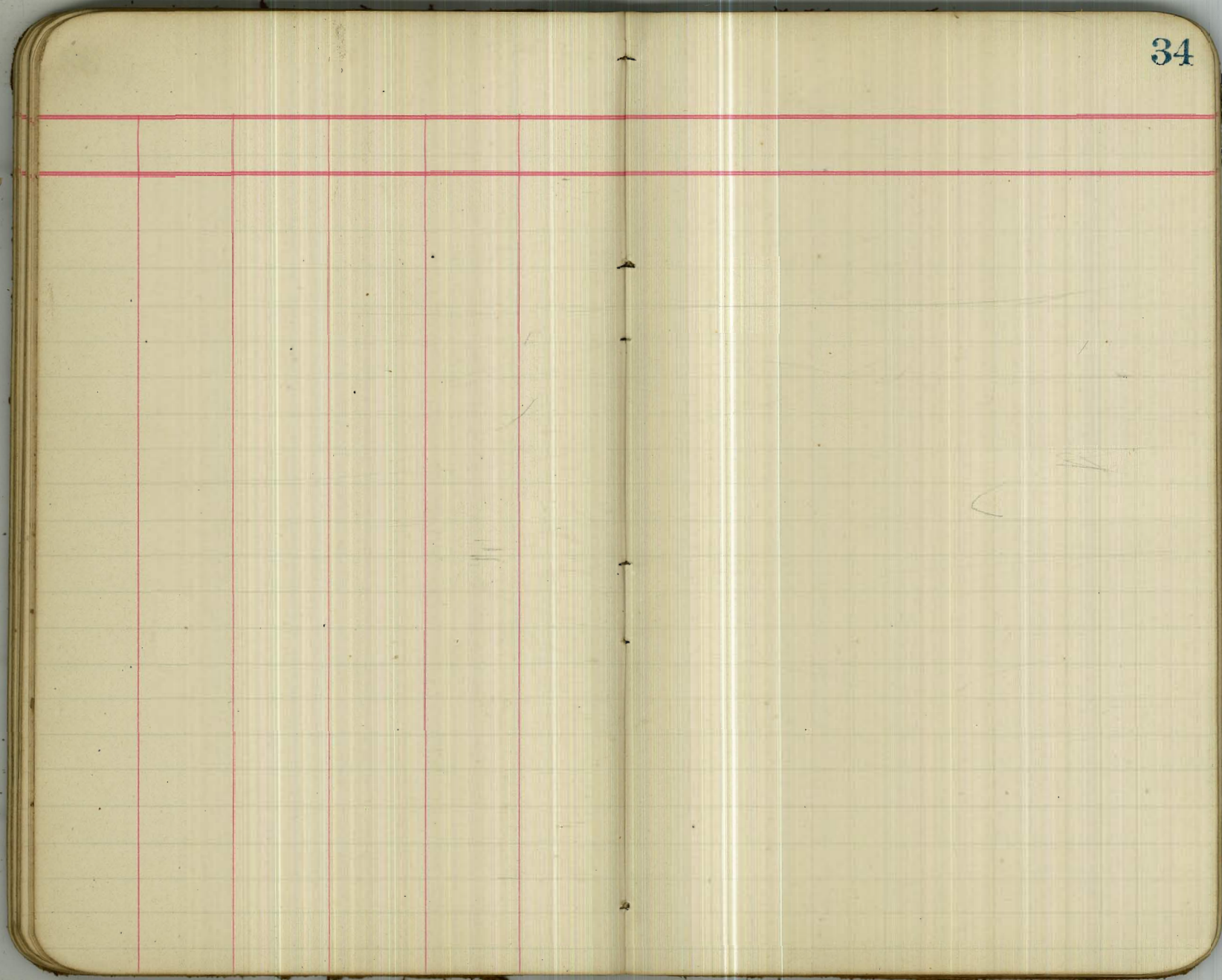












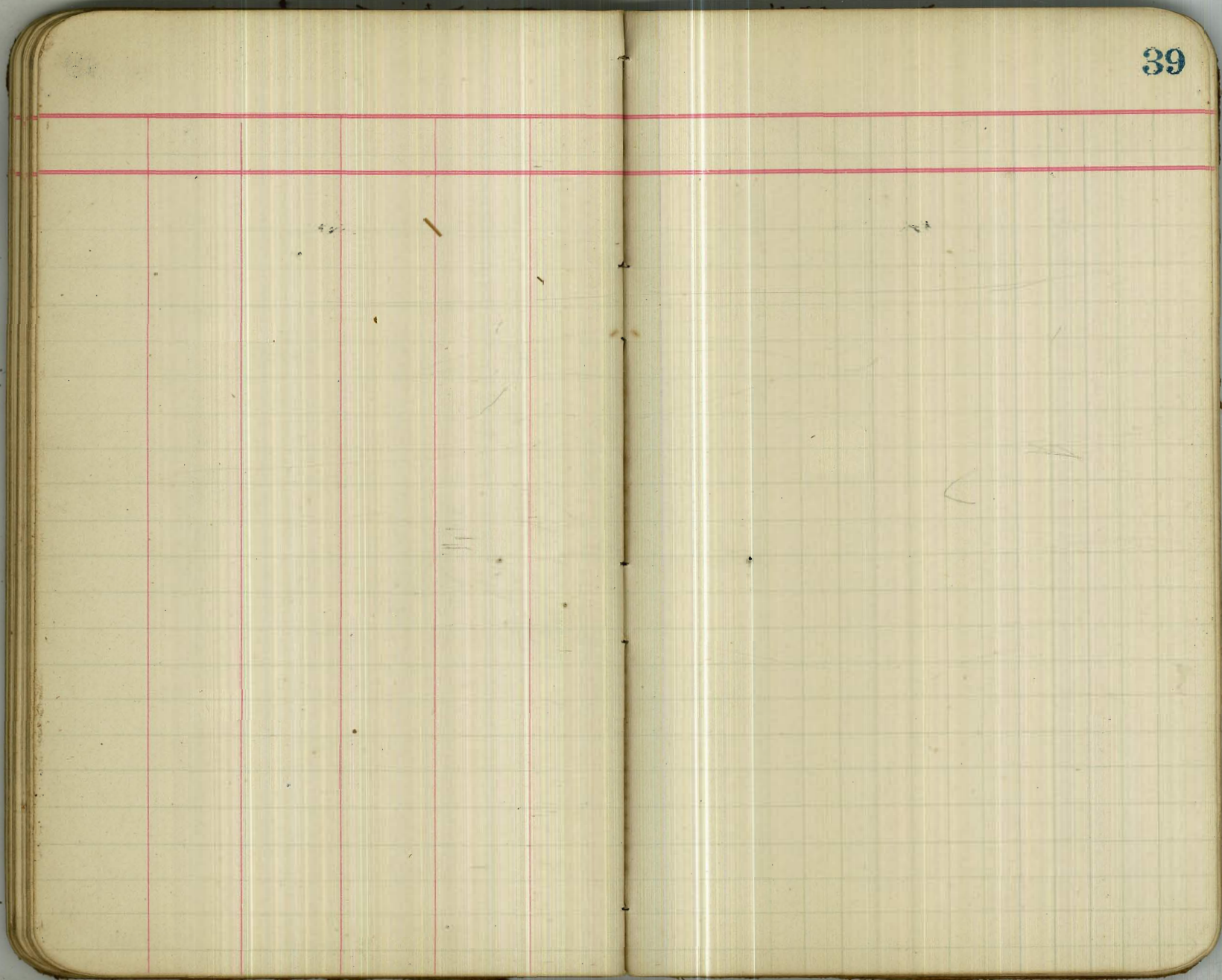


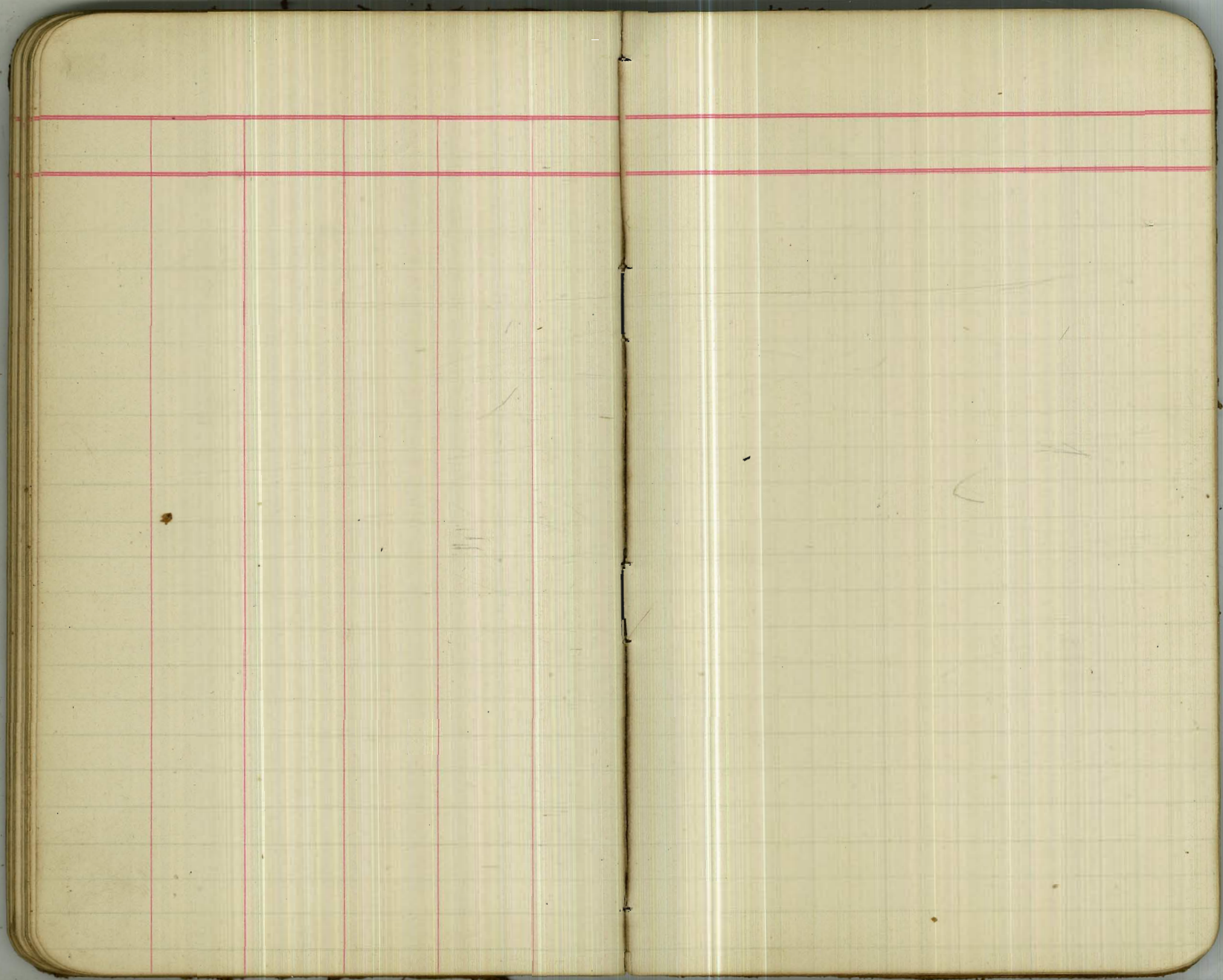




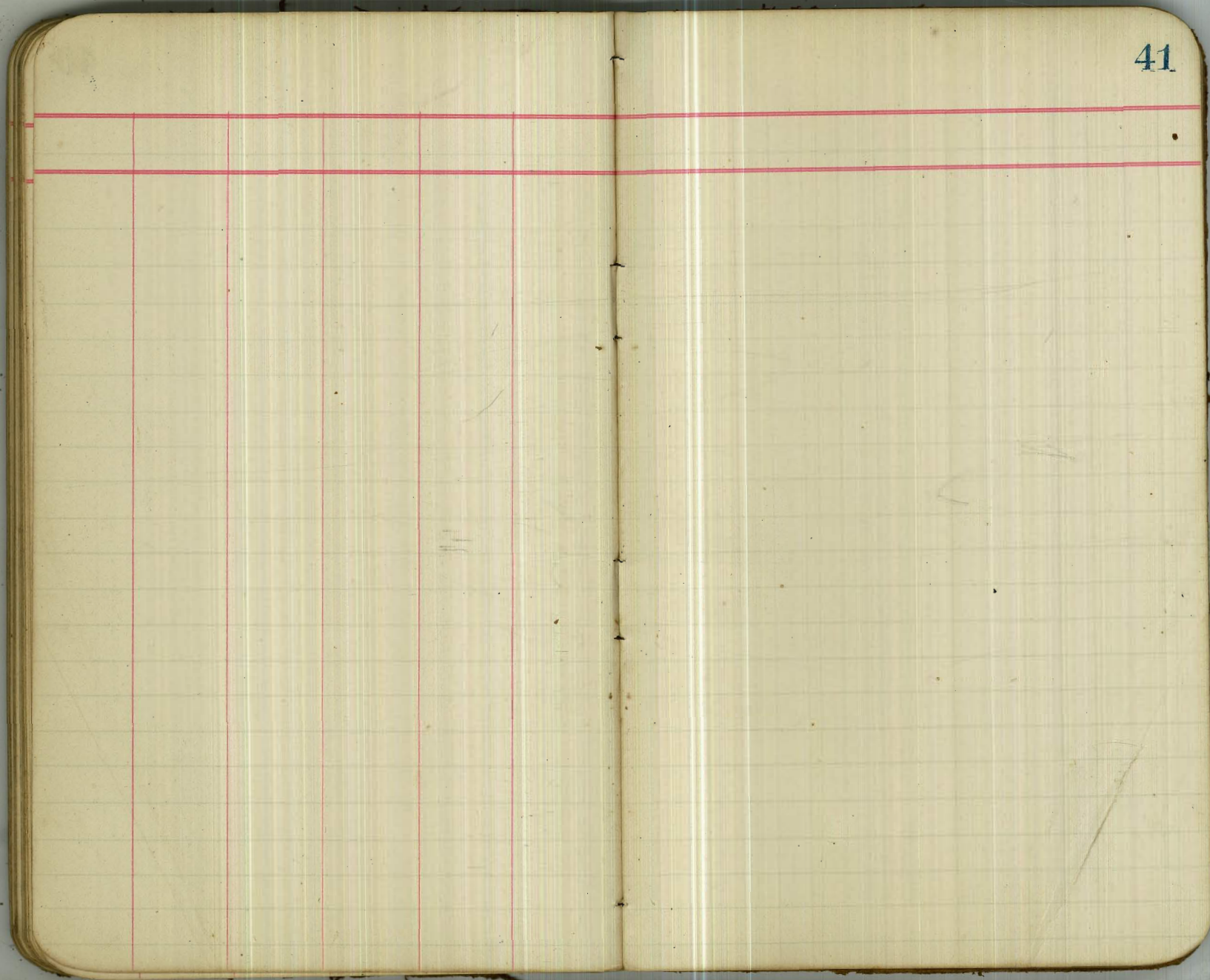
The image shows an open notebook with two pages. The left page is ruled with a grid of horizontal lines and has two vertical red lines that create three columns. The right page is ruled with a grid of horizontal lines and has one vertical red line that creates two columns. The number '38' is written in the top right corner of the right page. The notebook is placed on a light-colored surface.













Sept 21

43

Sept 21-  
11  
L. A. Smith

Li. 100  
100

45



Front

46



*18 Dec 1900*

*21 19*  
*24 22*  
*27 4*  
*1+48*  
*1+*  
*1+24*

*19 x 40 end of*  
*the on next vt*

Handwritten calculations and diagrams on the left page of the notebook. The calculations include:

$$\begin{array}{r} 1085 \\ 1150 \\ \hline 24 \\ \hline 1985 \\ 40 \\ \hline 1185 \end{array}$$

$$\begin{array}{r} 60 \\ 1060 \\ \hline 95-2 \\ \hline 1096 \\ 1990 \\ \hline 1160/088 \\ \hline 2950 \\ 25 \\ \hline 295 \end{array}$$

$$\begin{array}{r} 1090 \\ 1150 \\ \hline 1150 \\ 25 \\ \hline 25 \end{array}$$

Diagrams include a large circle with a horizontal line through its center, and a smaller circle below it.

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

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	85
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	84
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	83
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	82
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	81
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	80
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	79
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	78
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	77
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	76
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	75
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	74
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	73
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	72
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	71
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	70
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	69
17	95.68	29.24	95.50	29.65	95.37	30.07	95.24	30.49	68
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	67
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	66
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	65
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	64
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	63
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	62
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	61
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	60
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	59
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	58
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	57
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	56
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	55
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	54
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	53
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	52
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	51
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	50
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	49
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	48
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	47
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	46
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	45
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	44
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	43
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	42
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	41
45	70.71	70.71							40

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