

H. & 19<sup>th</sup> Street  
No. 10.

9

TRANSIT

18<sup>th</sup>  
"

F.B. 711

711

Showing the difference of latitude and longitude 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

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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.
°		°		°		°	
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

# H street

South

4+46 <sup>Jan</sup> west of 18<sup>th</sup> street

4+15 8+4 4+01 for 18<sup>th</sup> street

3+99

3+52

North 3+50

7115 9<sup>mi</sup> North

3+02

3+00

2+52

6+90 2+52

2+50

6+76

Jan  
1+68

6+74

6+25

6+23

1+29 1+91 8+6 1+01

5+75

5+73

5+25

0+99

5+23

0+51

0+49

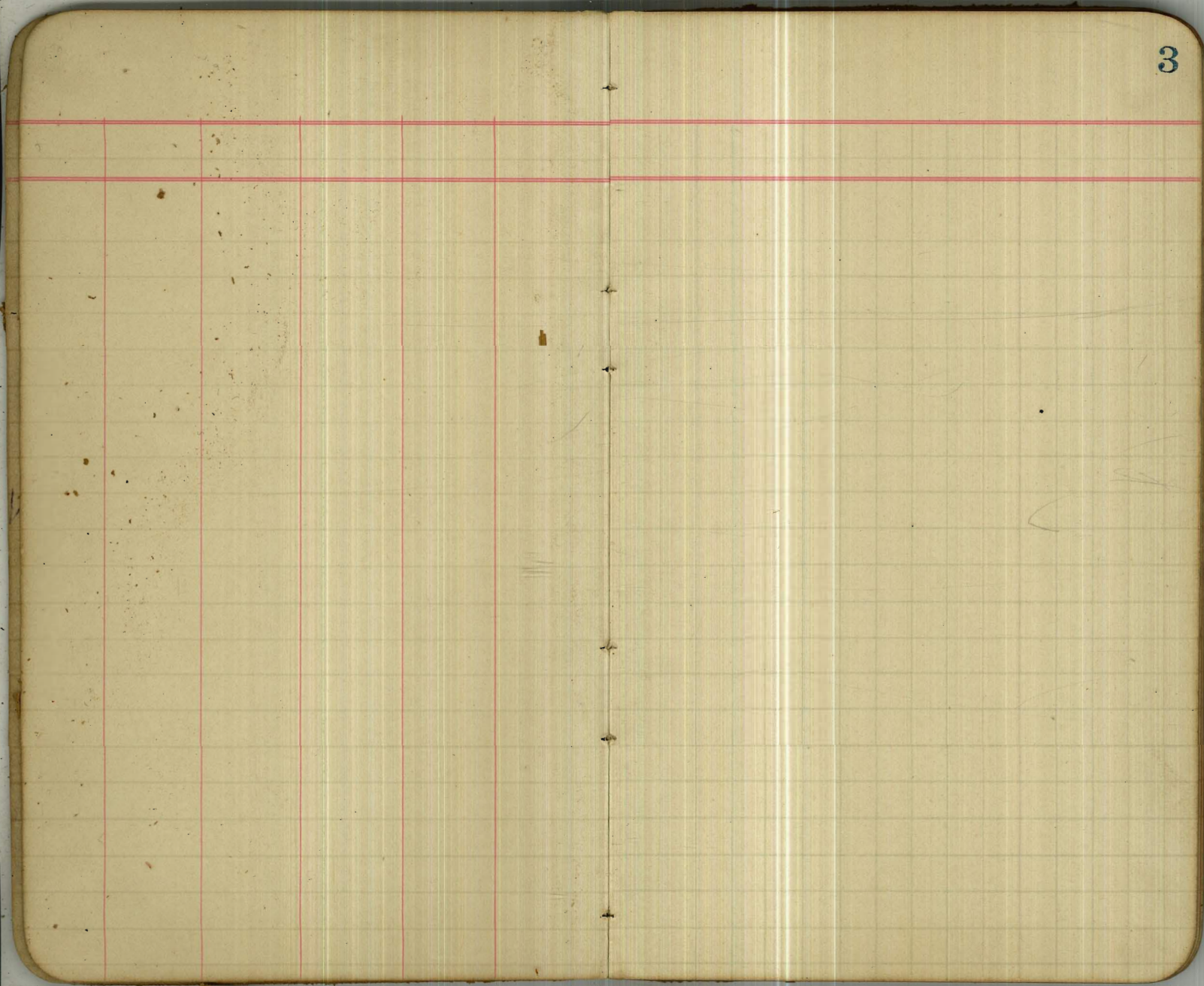
west - 35 ft East of

16<sup>th</sup> street end of Pike commercial

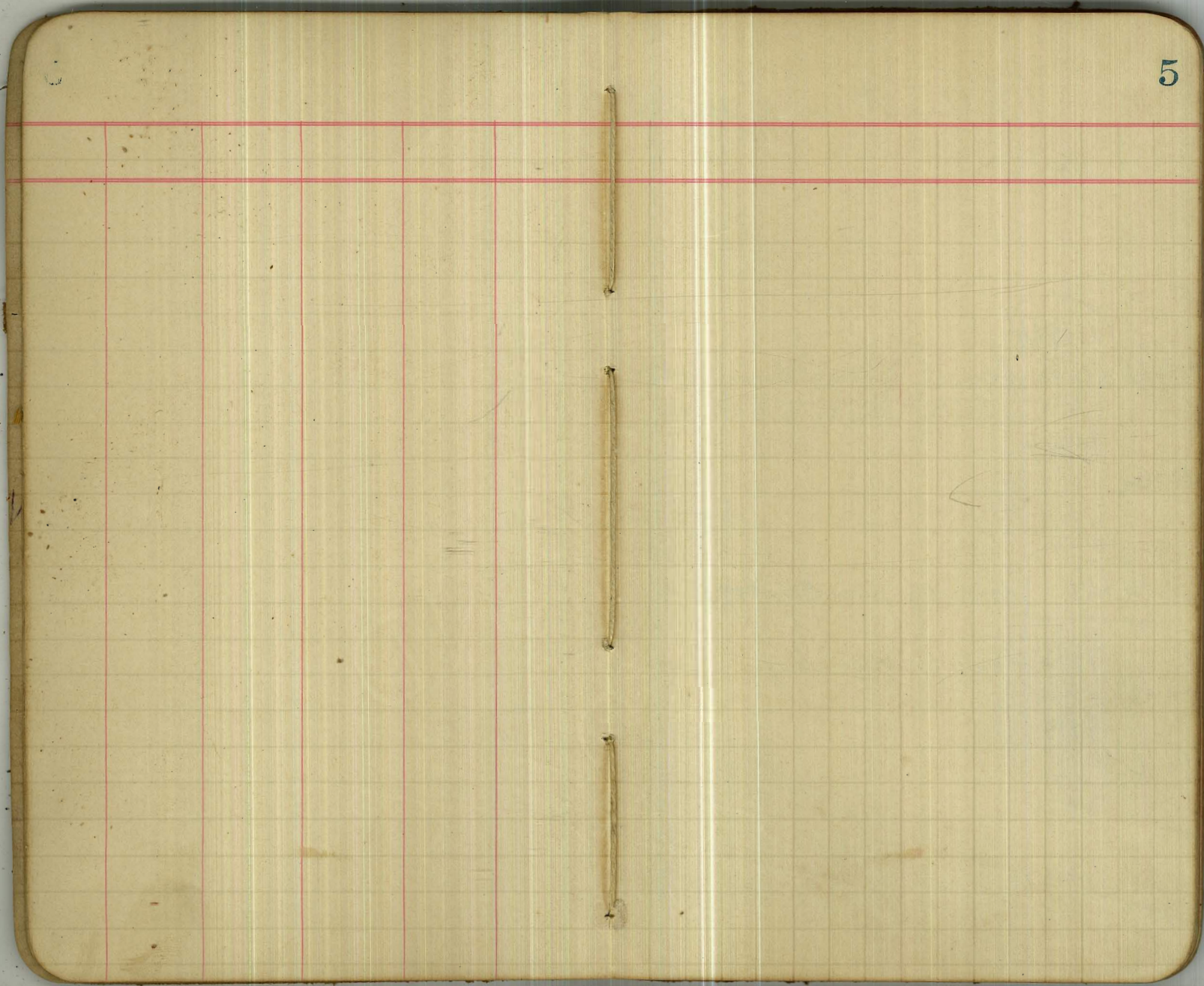
for 19<sup>th</sup> street 11 ft Back  
of property line and the  
line is 44 ft from property  
line on south side of H Street

> 1+31 - 1/2 8+6 for 17<sup>th</sup> street South

The image shows an open notebook with two blank pages. The pages are cream-colored and feature light blue horizontal ruling. The left page is divided into three vertical columns by two red margin lines. The right page is divided into two vertical columns by one red margin line. The notebook is bound in the center with visible stitching. The number '2' is printed in the top right corner of the right page. The notebook is placed on a light-colored surface.







19 street and H St

East West

101842

Com for 19<sup>th</sup> street running South

35 ft North of property line  
and 3 1/2 ft North of street line on  
East

10164

10162

From  
10151

end of wooden box also

9143 starts wooden box

9141

9114

9112

8144

8144

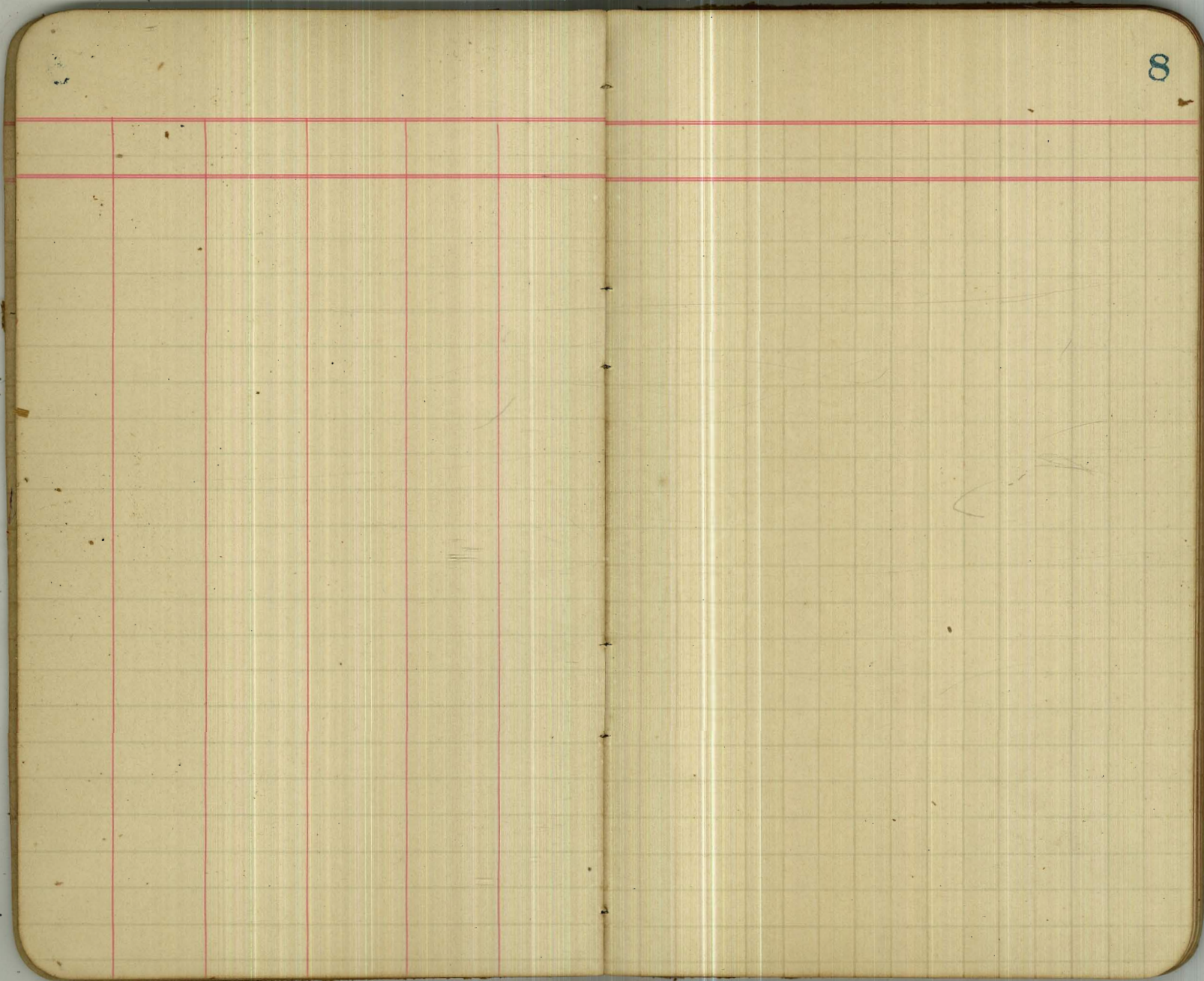
8115

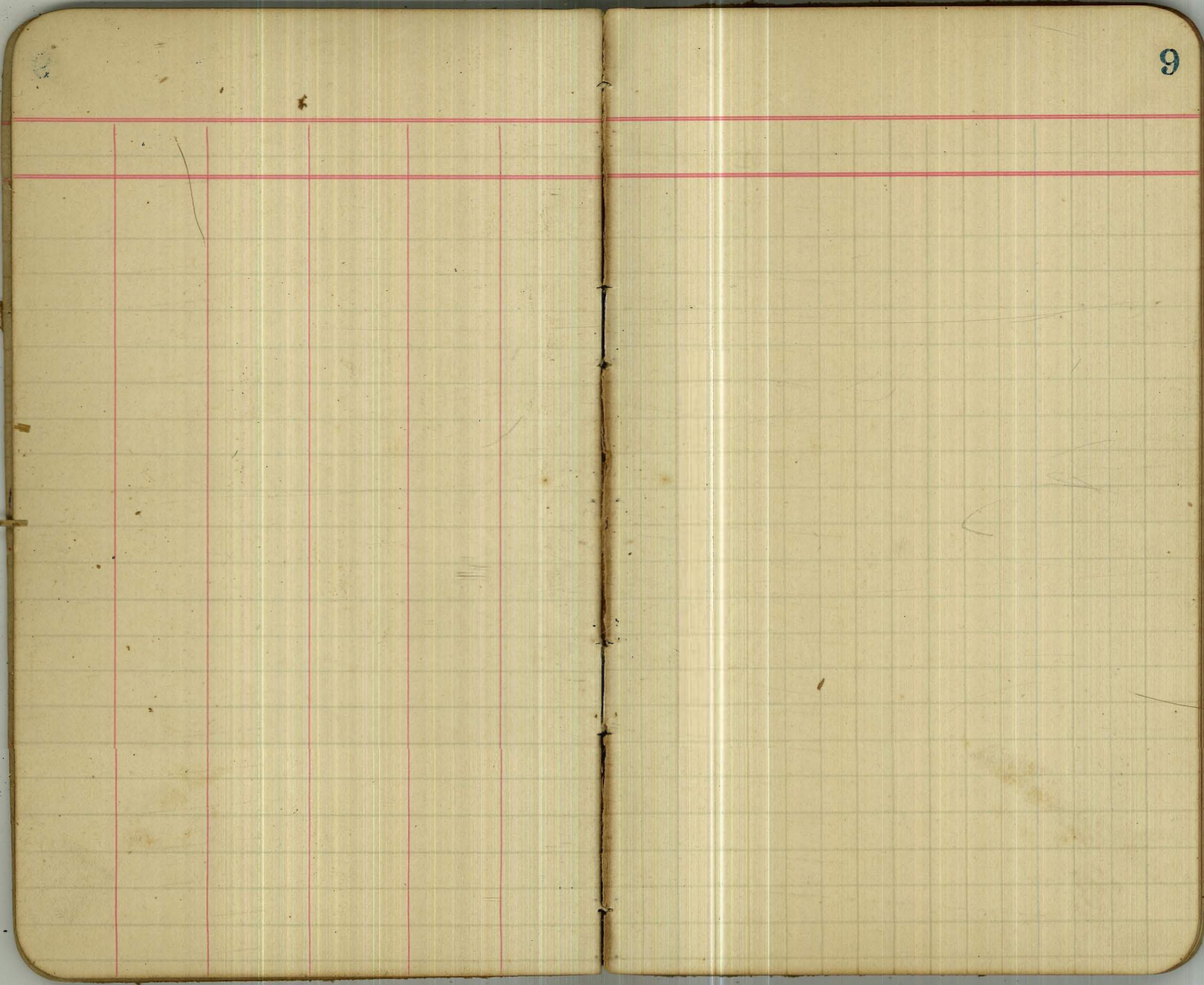
8113

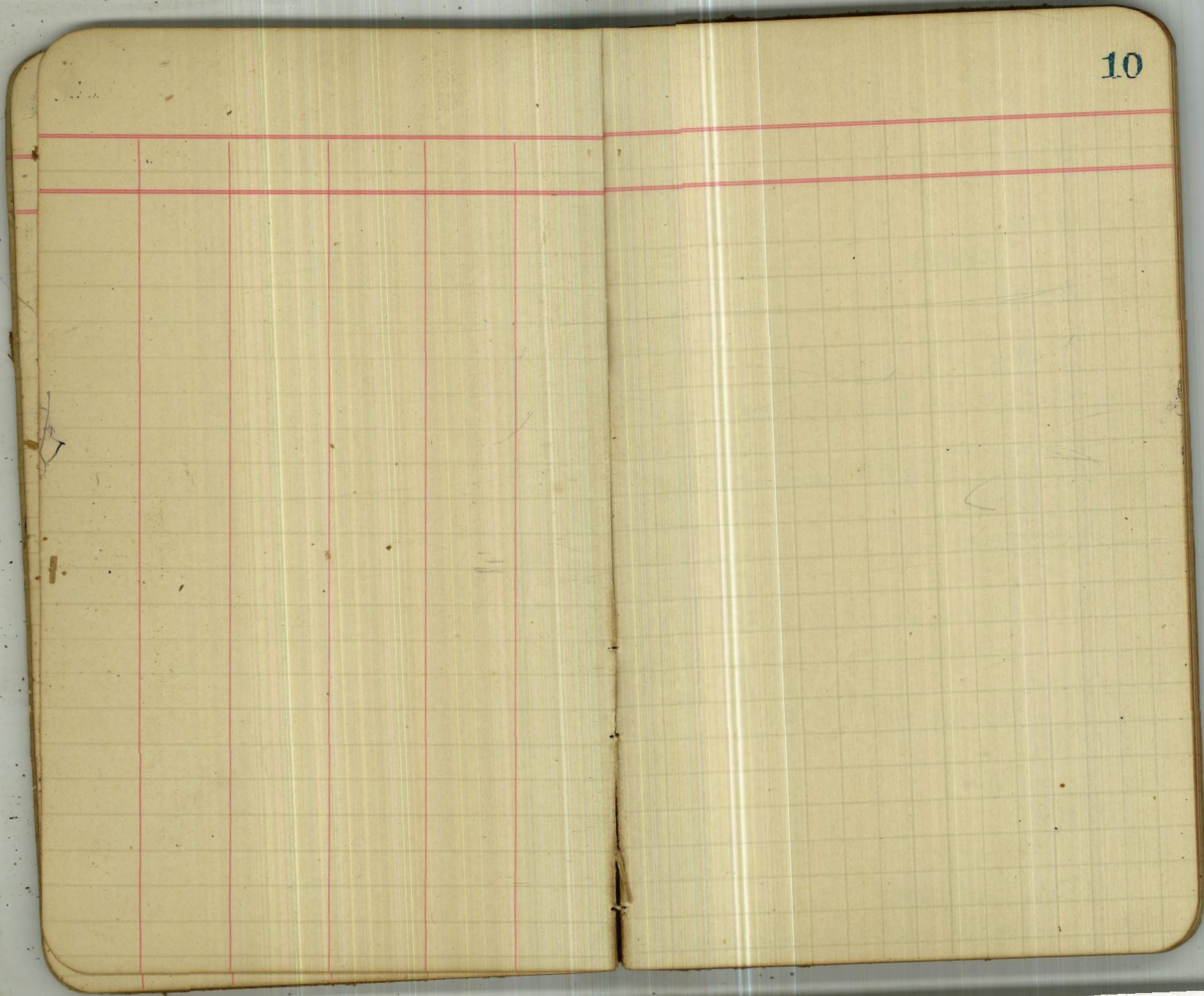
South line of H Street Property line











## J street

N.W. 14<sup>th</sup> St

14x53

14x07

14x05

13x7 1/2 End of Box

13x51 west End of Box

Finished up the corner 20<sup>th</sup> St  
19x91

13x18

19x14 6x8 1/2 on J street

12x92

12x90

12x43

12x41

11x93

11x91

11x98

11x95 East side 19<sup>th</sup> street  
on J street property line

J street

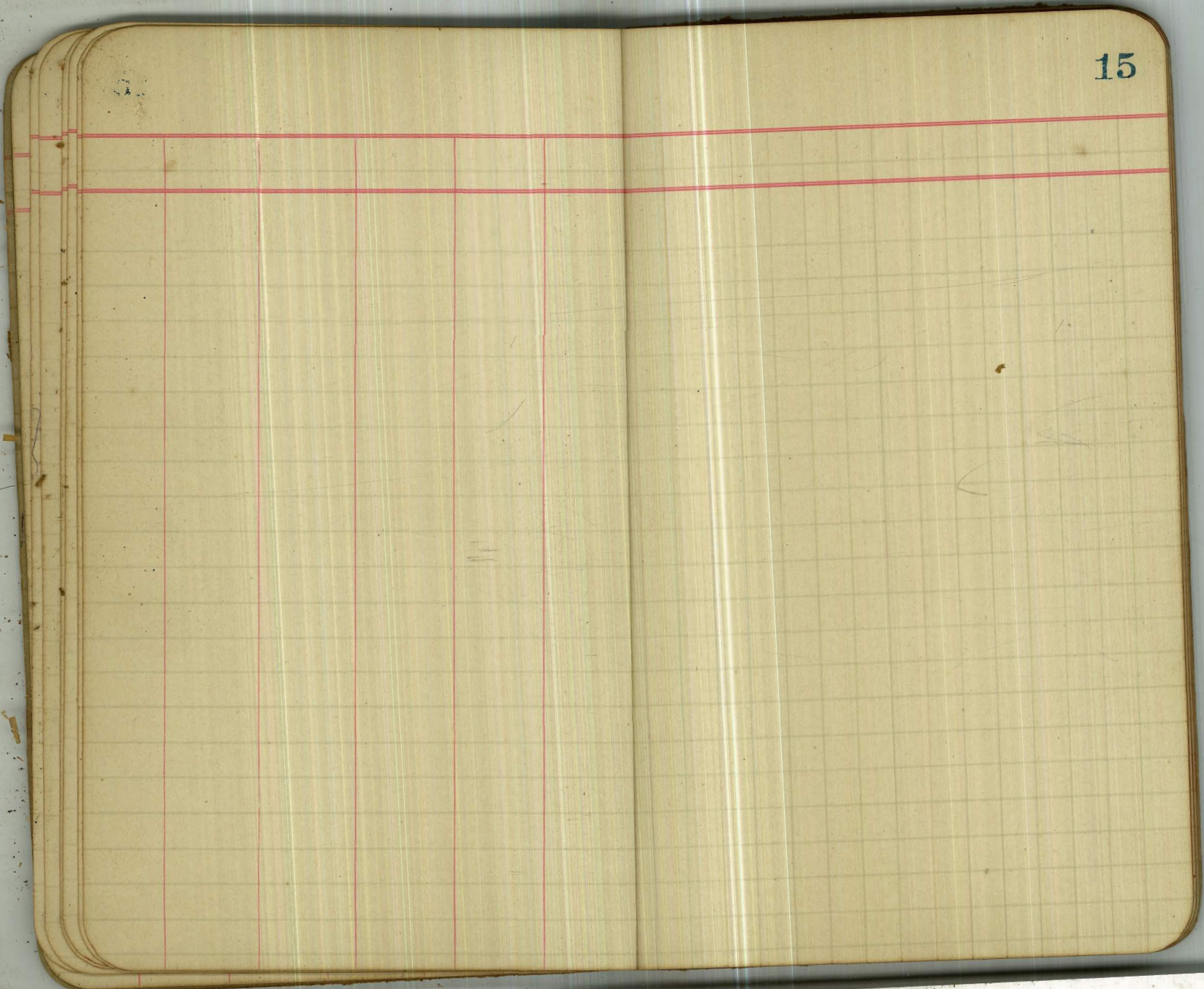
North south

15+75 3 mi y for 21" street to End of pipe on J street  
 4 mi y 15+73 21" street y  
 15+55  
 15+53  
 15+07  
 15+05

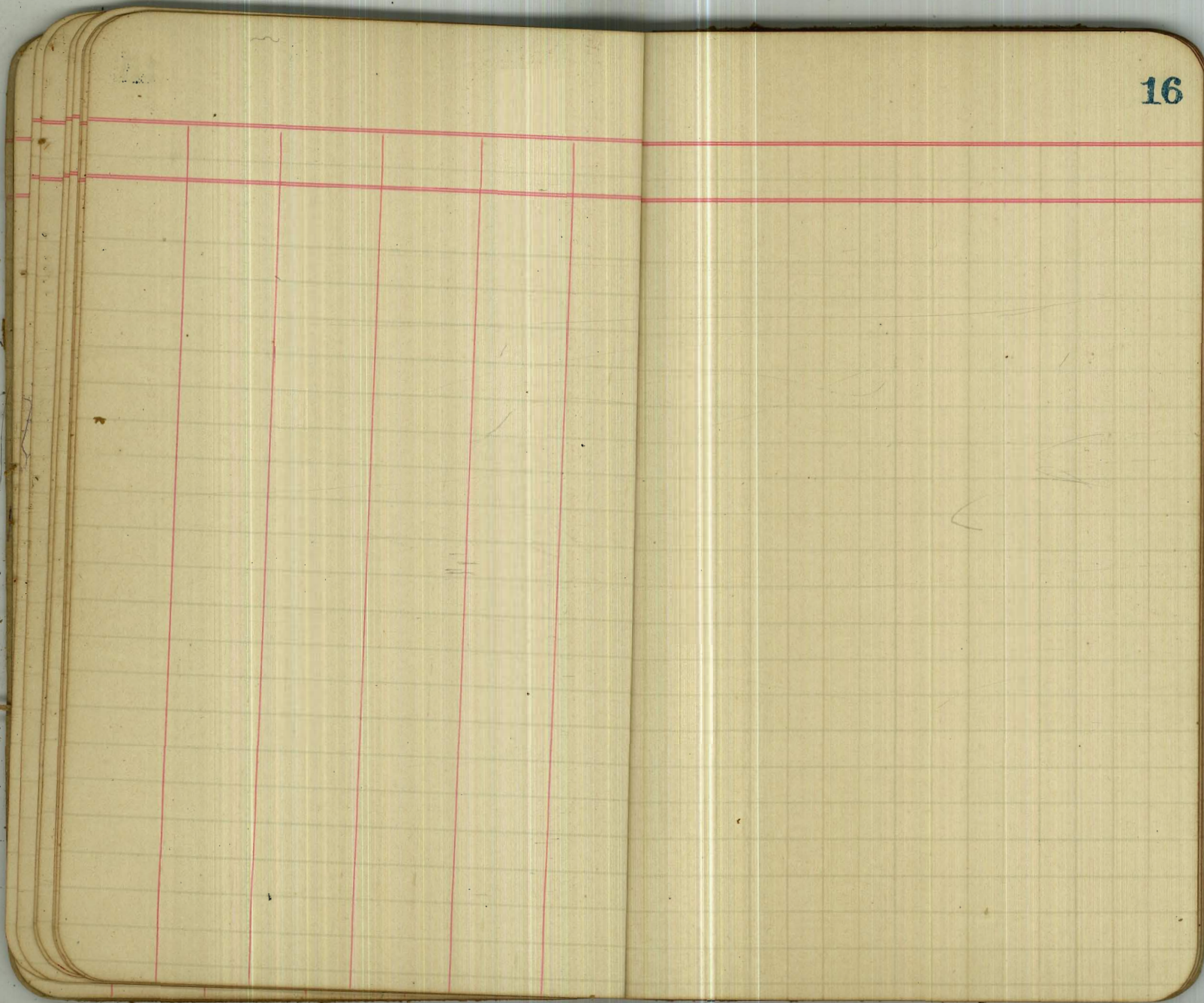


14





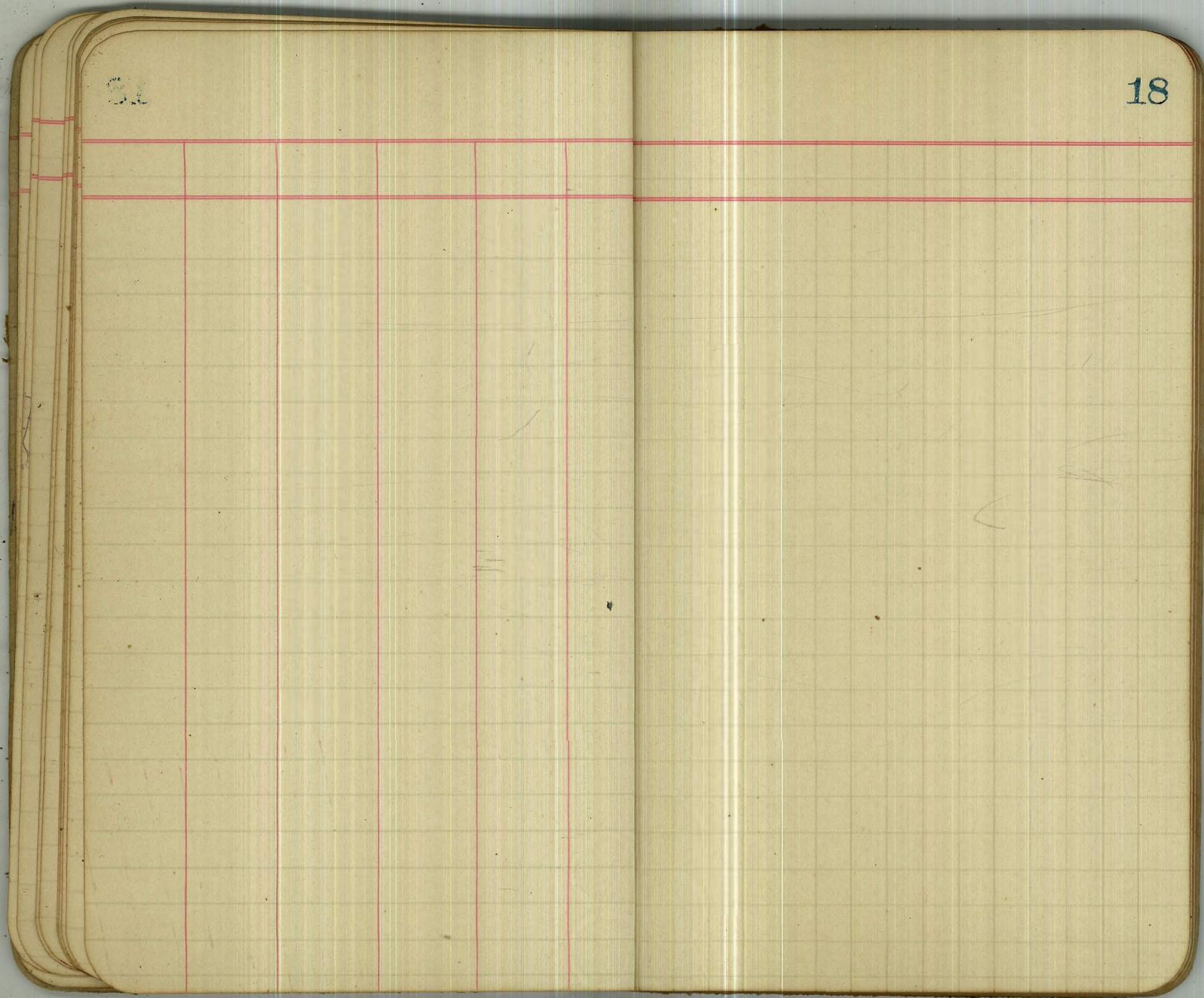
16

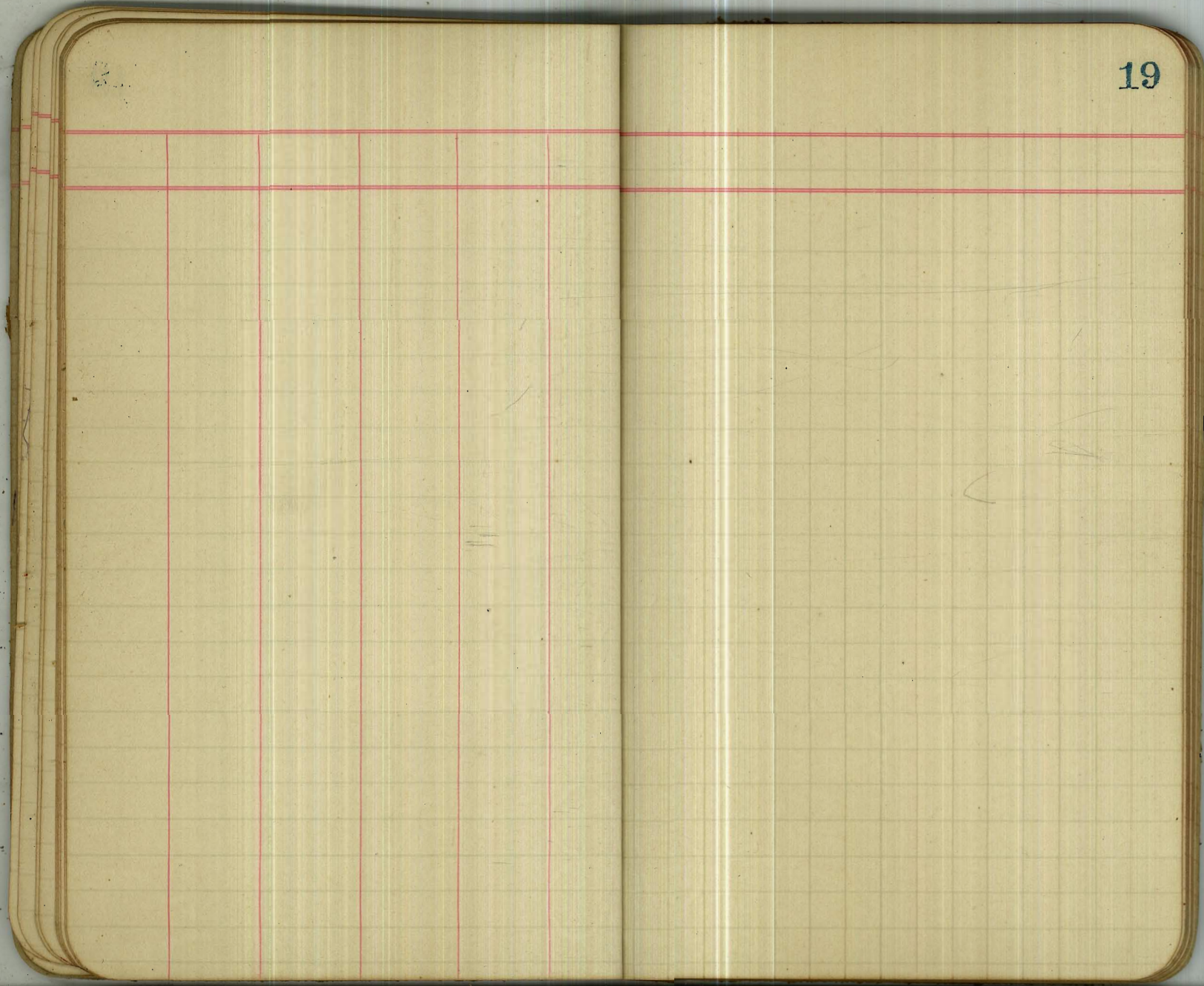


The image shows an open notebook with two pages. The pages are cream-colored and feature a light blue grid pattern. The left page is ruled with a grid and has four vertical red lines, creating five columns. The right page is ruled with a grid and has the number '17' printed in the top right corner. The notebook is placed on a light-colored surface.

81

18







The image shows an open notebook with two 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 a horizontal red header line near the top. The right page has a horizontal red header line near the top. The notebook is placed on a light-colored surface, and the number '21' is printed in the top right corner of the right page.

The image shows an open notebook with two pages. The left page is ruled with a grid of 5 columns and 20 rows. The right page is ruled with a grid of 15 columns and 20 rows. The number 22 is written in the top right corner of the right page. The notebook is placed on a light-colored surface.



22

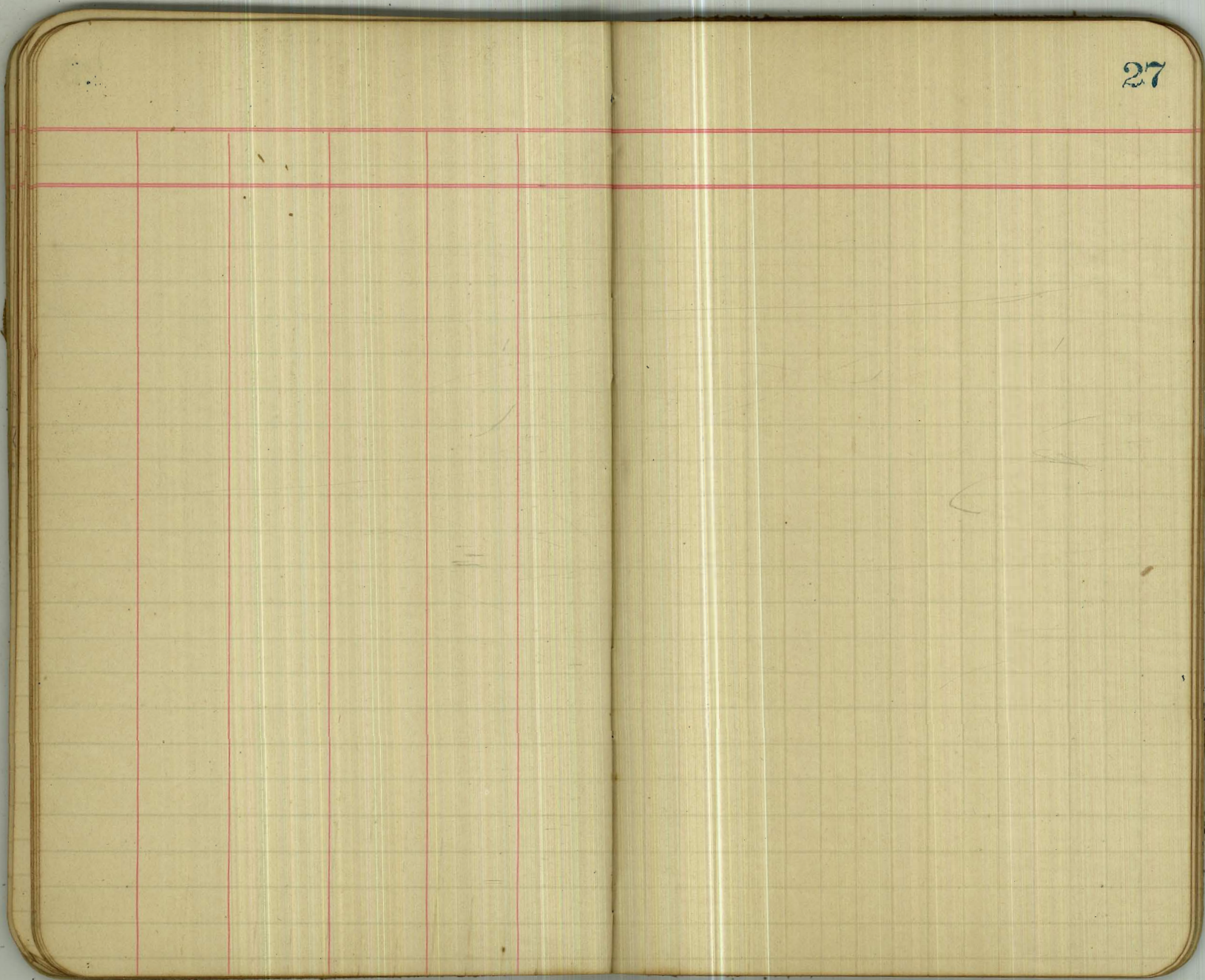
23

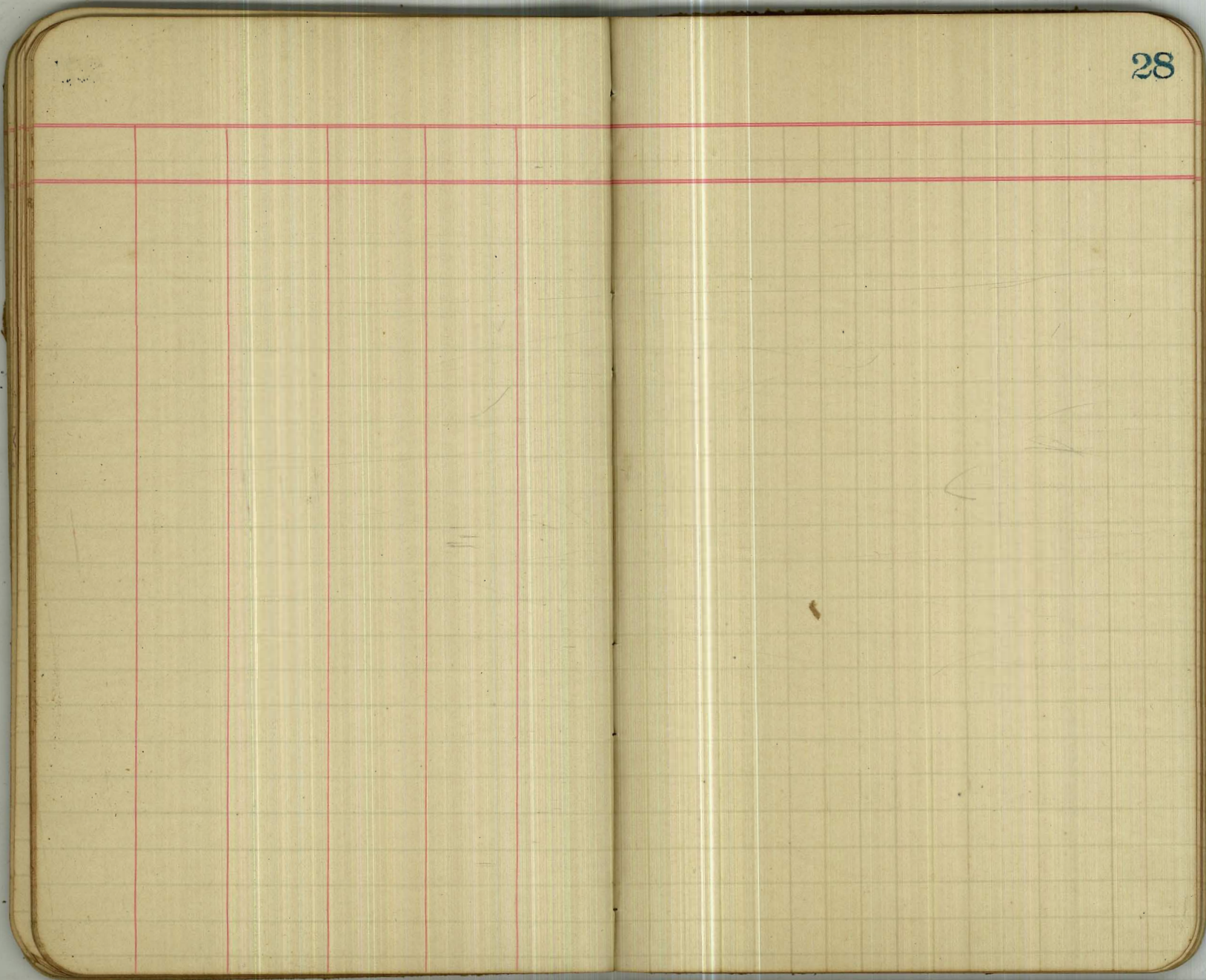
The image shows an open notebook with two pages. The pages are cream-colored with a light blue grid. The left page has four vertical red lines, creating five columns. The right page has the number '24' printed in the top right corner. The notebook is placed on a light-colored, textured surface.

25

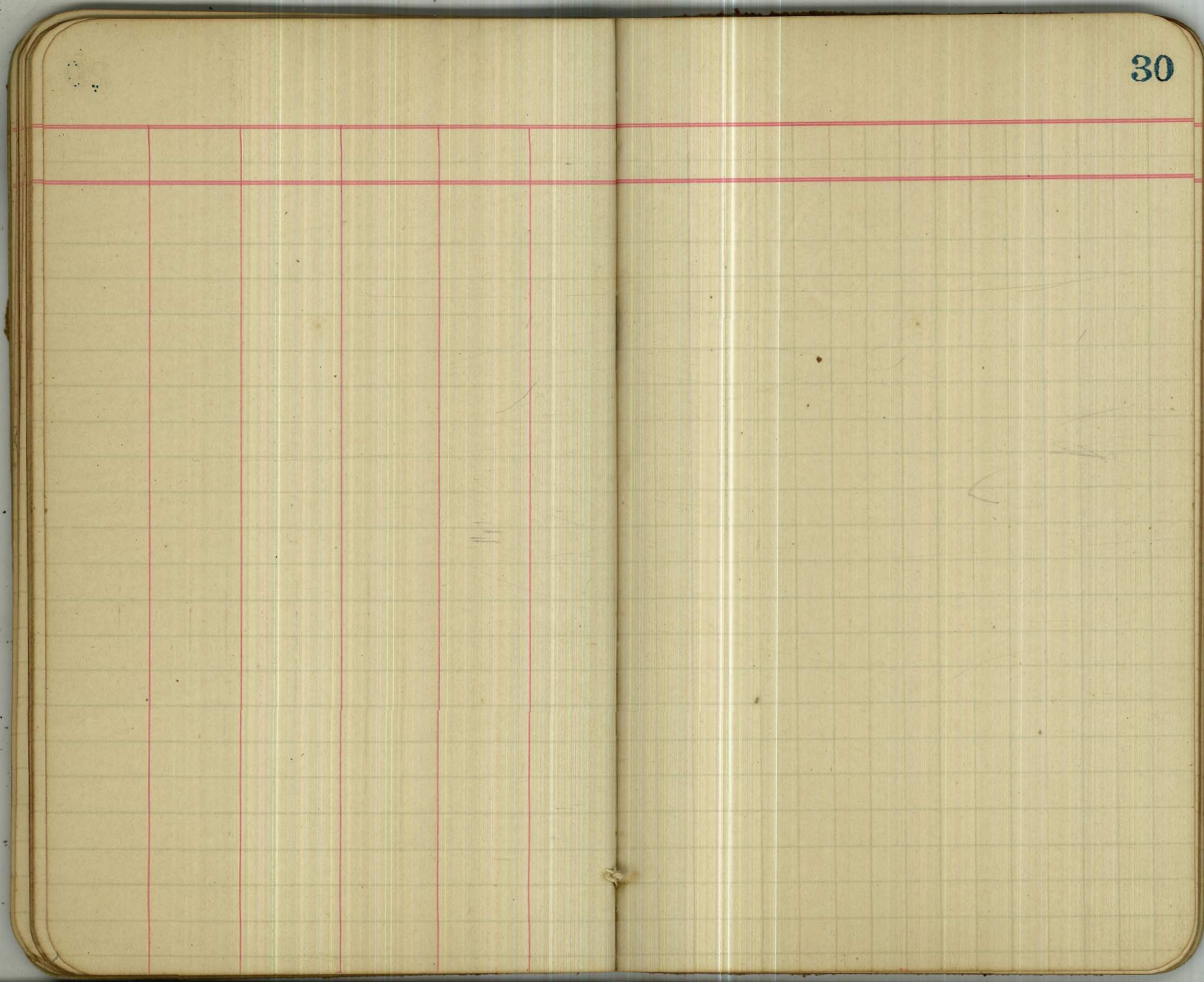
26

27





The image shows an open notebook with two pages. The left page is ruled with a grid of 6 columns and 20 rows. The right page is ruled with a grid of 20 columns and 20 rows. The number 29 is printed in the top right corner of the right page. The notebook is placed on a light-colored surface.





30

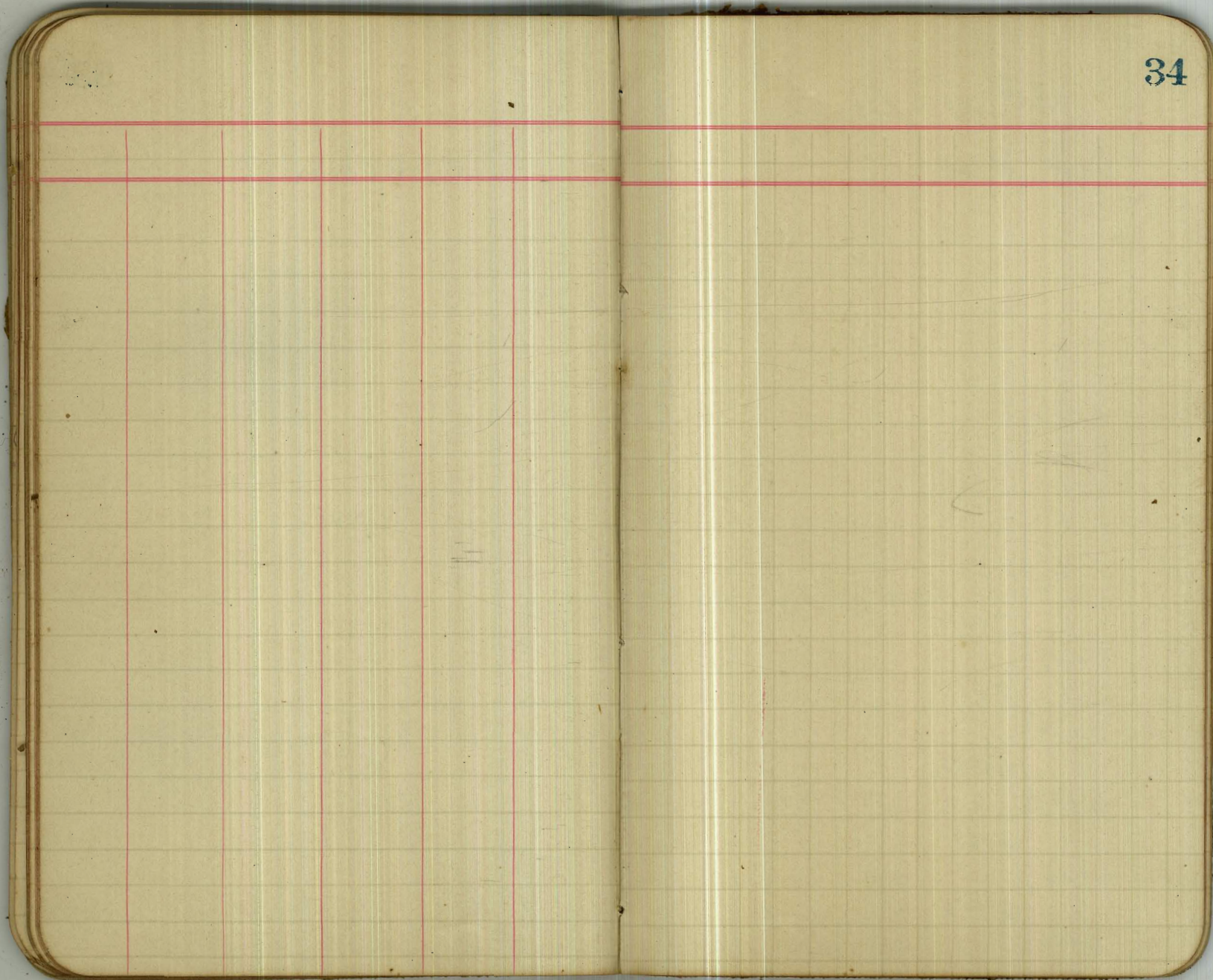
31

The image shows an open notebook with two pages. The pages are cream-colored and feature a light blue grid pattern. The left page has a vertical red margin line on the left side. The right page has the number '32' printed in the top right corner. The notebook is placed on a light-colored surface.

Y's on 18<sup>th</sup> Street from  
H Street south.

Remarks.

E	W		
	3+13	6+18	
3+11		6+16	
	2+88	5+92	
2+86		5+90	
	2+63	5+68	
2+61		5+66	
	2+39	5+43	
2+37		5+41	
	2+13	5+18	
2+11		5+16	
	1+87½	4+93	
1+85½		4+91	
	1+63½	4+68	
1+61½		4+66	1 ft south of south line of I St
	1+35	3+86	Inspection hole 1 ft north of north line of I St.
1+33			
	1+13	3+63	
1+11		3+61	
	0+88	3+39	
0+86		3+37	→ South line of H Street.



18<sup>th</sup> St between Sandf Sts

East West

7+67 End of pipe on 18<sup>th</sup> St

7+43

7+41

7+17

7+15

6+92 $\frac{1}{2}$

6+90 $\frac{1}{2}$

6+68

6+66

6+42

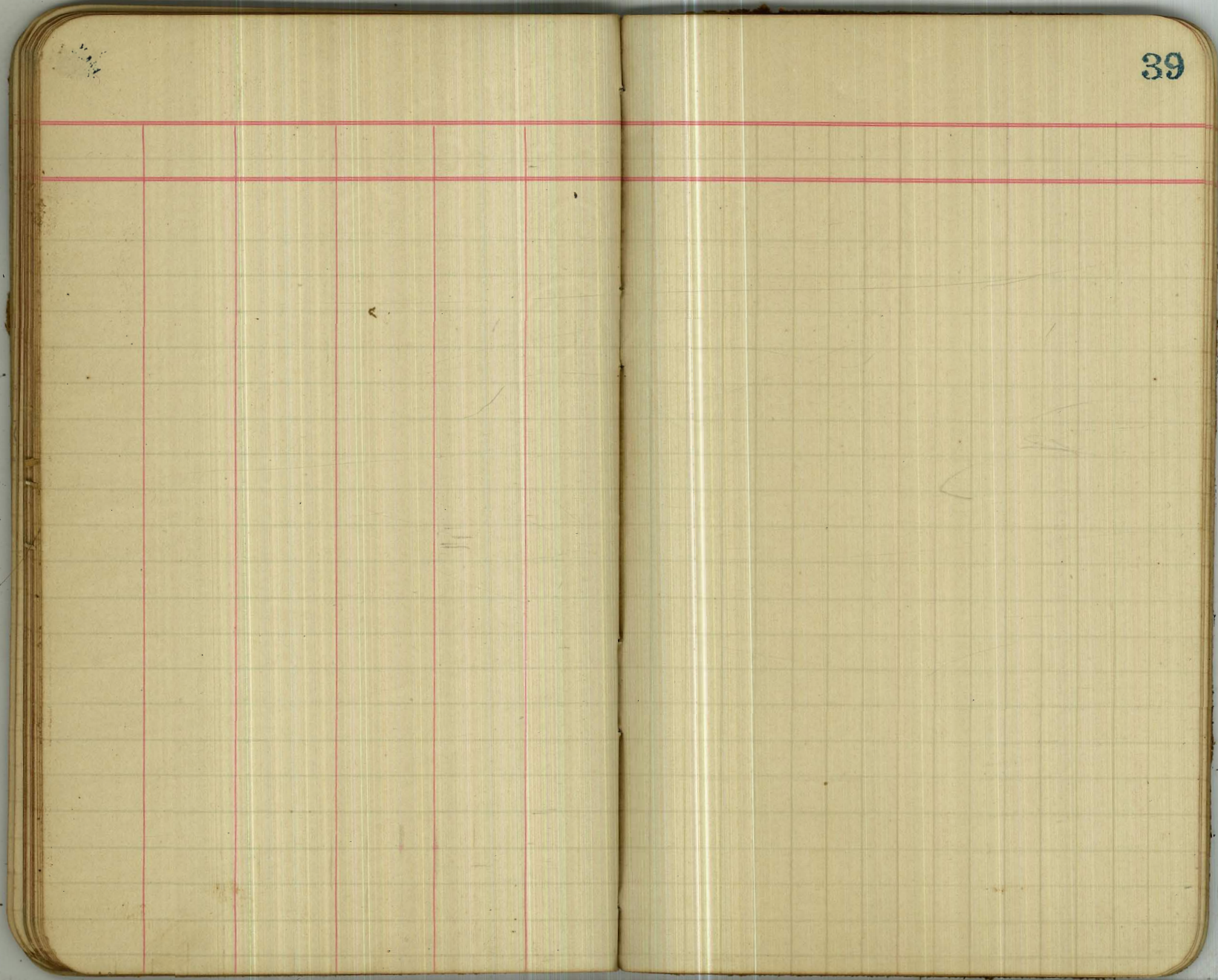
6+40

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 36 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 pages are cream-colored and feature a light blue grid pattern. The left page has a vertical red margin line on the left side. The right page has a vertical red margin line on the right side. The number '37' is printed in the top right corner of the right page. The notebook is placed on a light-colored, textured surface.

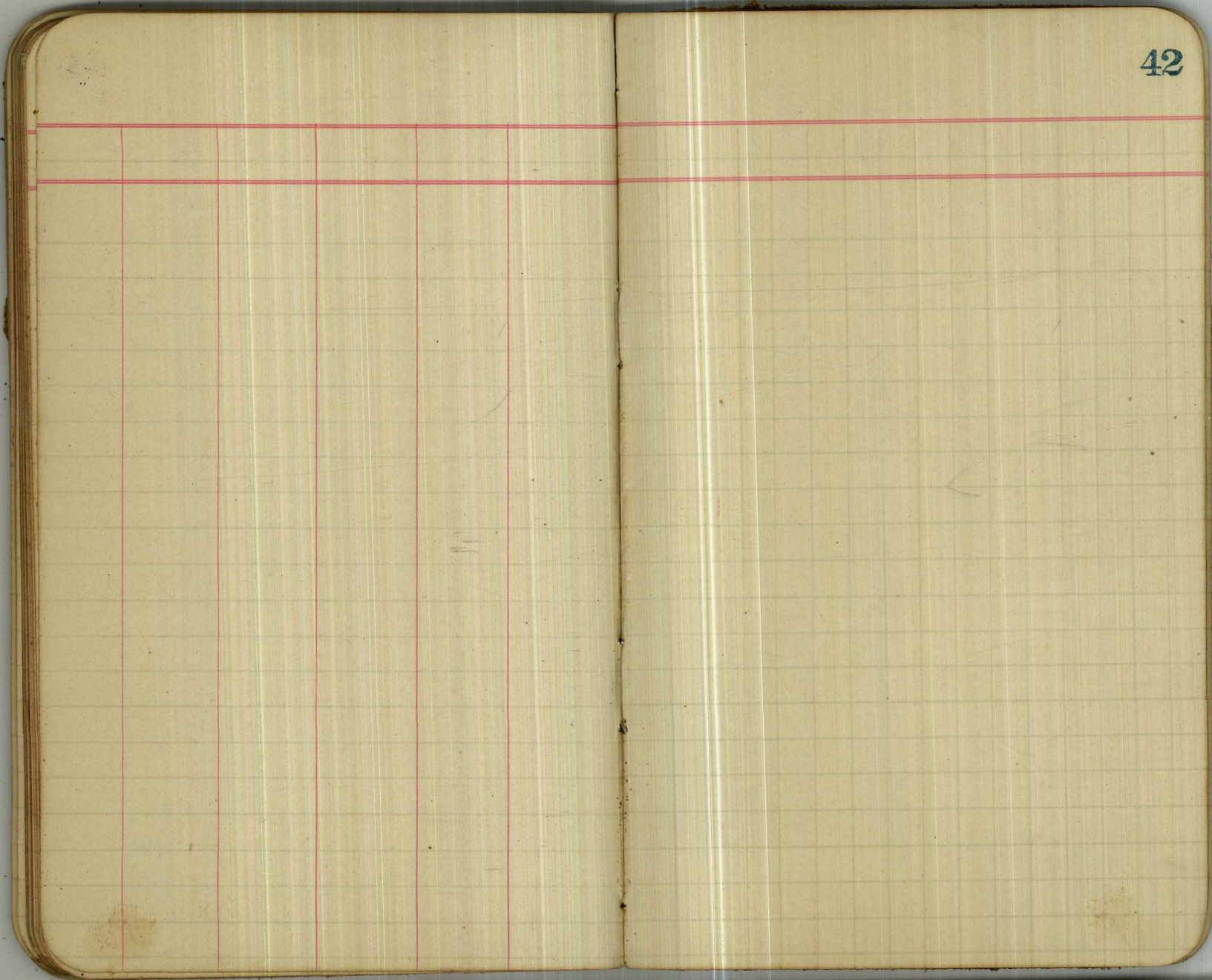






The image shows an open notebook with two pages. The left page is ruled with a grid and has five vertical red lines, creating six columns. The right page is ruled with a grid and has the number 40 in the top right corner. The notebook is placed on a light-colored surface.



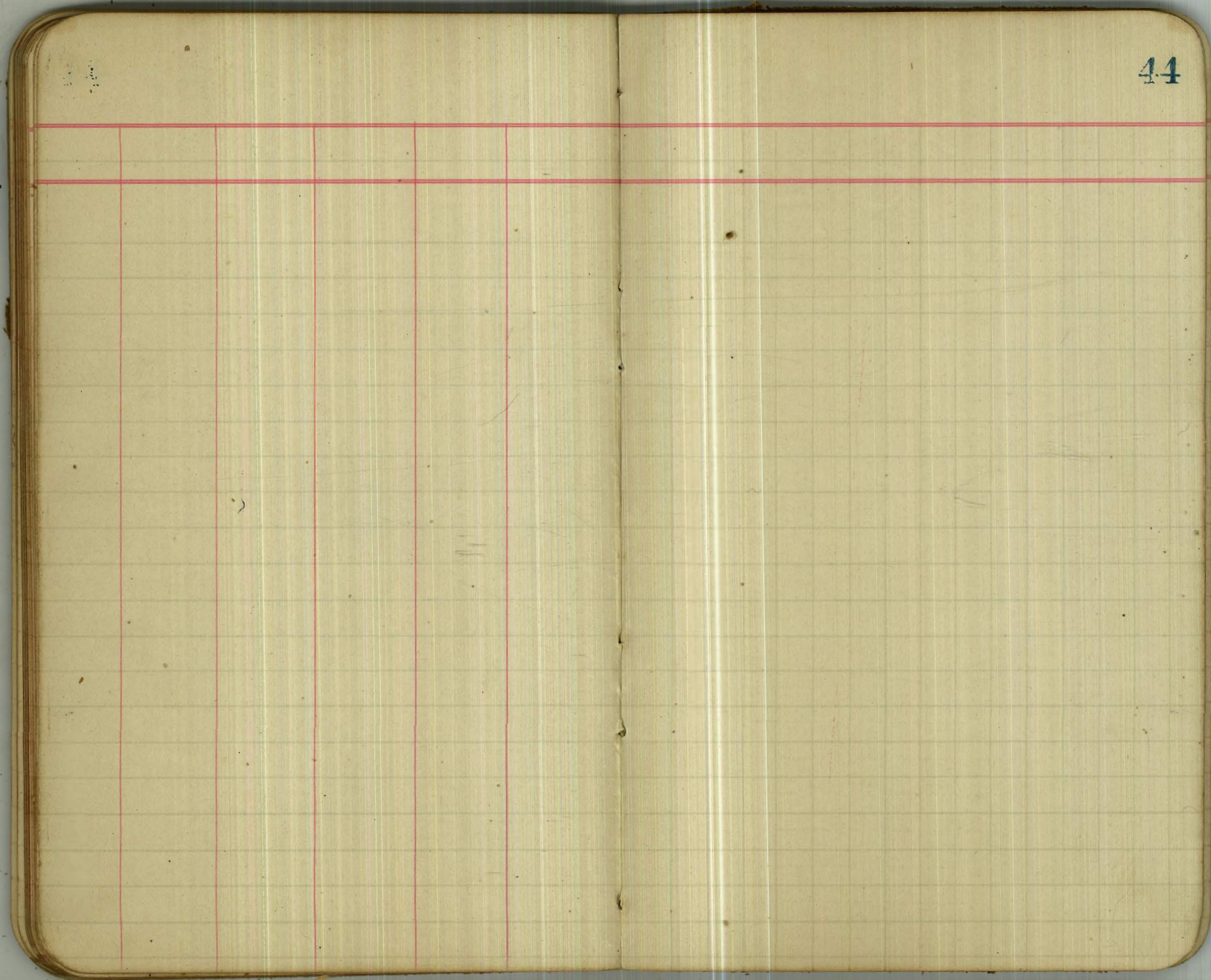


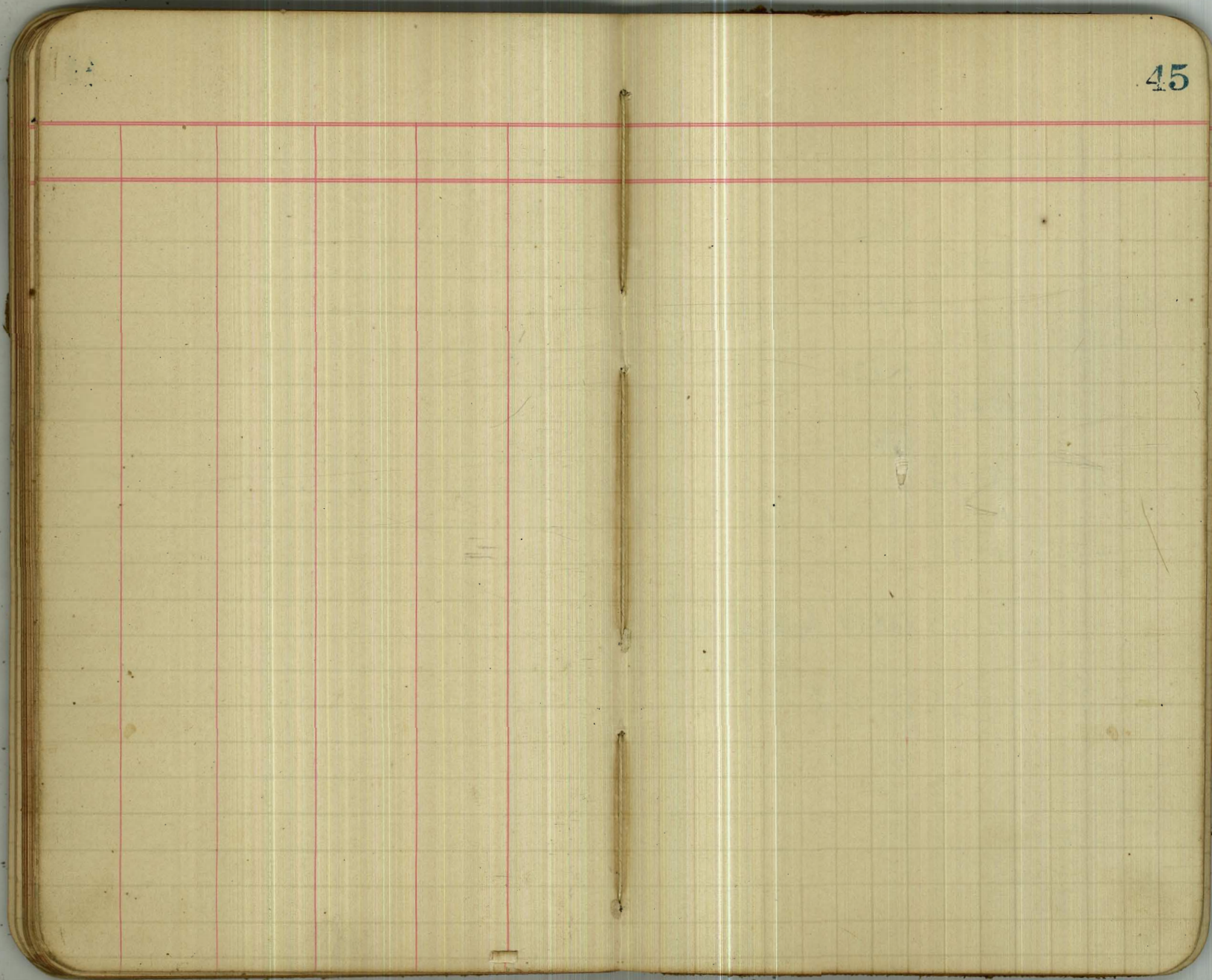
51

17<sup>th</sup> sheet south of H street

43

East 6+99  
6+99





18<sup>th</sup> Street North of H

West East West East

			5+80	
	3+25	5+98		
3+23			5+56	
	3+01	5+54		
2+99			5+81	
	2+75	5+29		
2+73			5+06	
	2+51	5+04		
2+49			4+81	North line of H
	2+25	4+99		
2+23				
	2+01	4+19	4+17	6+6 by
1+99				winning in Street East
	1+76 $\frac{1}{2}$	South line of 18 <sup>th</sup> 4+0 <sup>00</sup> line		
1+74 $\frac{1}{2}$				
	1+50 $\frac{1}{2}$		3+75	
1+48 $\frac{1}{2}$		3+73		
	1+26		3+51	
1+24		3+49		
	0+94			
0+92		6m of 18 <sup>th</sup> on 18+H		



1/8<sup>th</sup> steel North of H street

West - East W E

8+00 6 in y for F sheet pointing West  
 7+98 6 in y for F sheet East  
 7+70

South line of 11 10+94 1/2 over

7+99 1/2 10+92 1/2

7+55 1/2 10+09 1/2

7+57 1/2 10+07 1/2

7+91 9+85

7+29 9+83

7+04 9+60

9+04 9+58

6+80 9+33 1/2

6+98 9+31 1/2

6+55 9+09

6+54 9+07

6+80 1/2 8+85

6+28 1/2 8+83

6+04 8+60

6+04 8+58

18<sup>th</sup> North of H street

W	S		
	13x99		
13x99	13x15		
13x13	12x89		
12x89	12x64		
12x62	12x99		
12x99			
	sheet - no inspection		
	11x95 - is 25 ft south of E street		
11x95		14x99	
	11x10	14x99	
11x08		14x15 $\frac{1}{2}$	15x14 end of pipe on 18 <sup>th</sup> street
	10x85	14x13 $\frac{1}{2}$	14x80
10x88		13x90	14x88
	10x69	13x88	14x85
10x57		13x65	14x69
	13x69		

end of pipe on 18<sup>th</sup> street  
18<sup>th</sup> street

9122

9120

8197

~~8195~~~~8172~~~~8170~~~~8147~~~~8145~~~~8122~~~~8120~~

6197

7196

7172

7170

7149

7145

7122

7120

6190

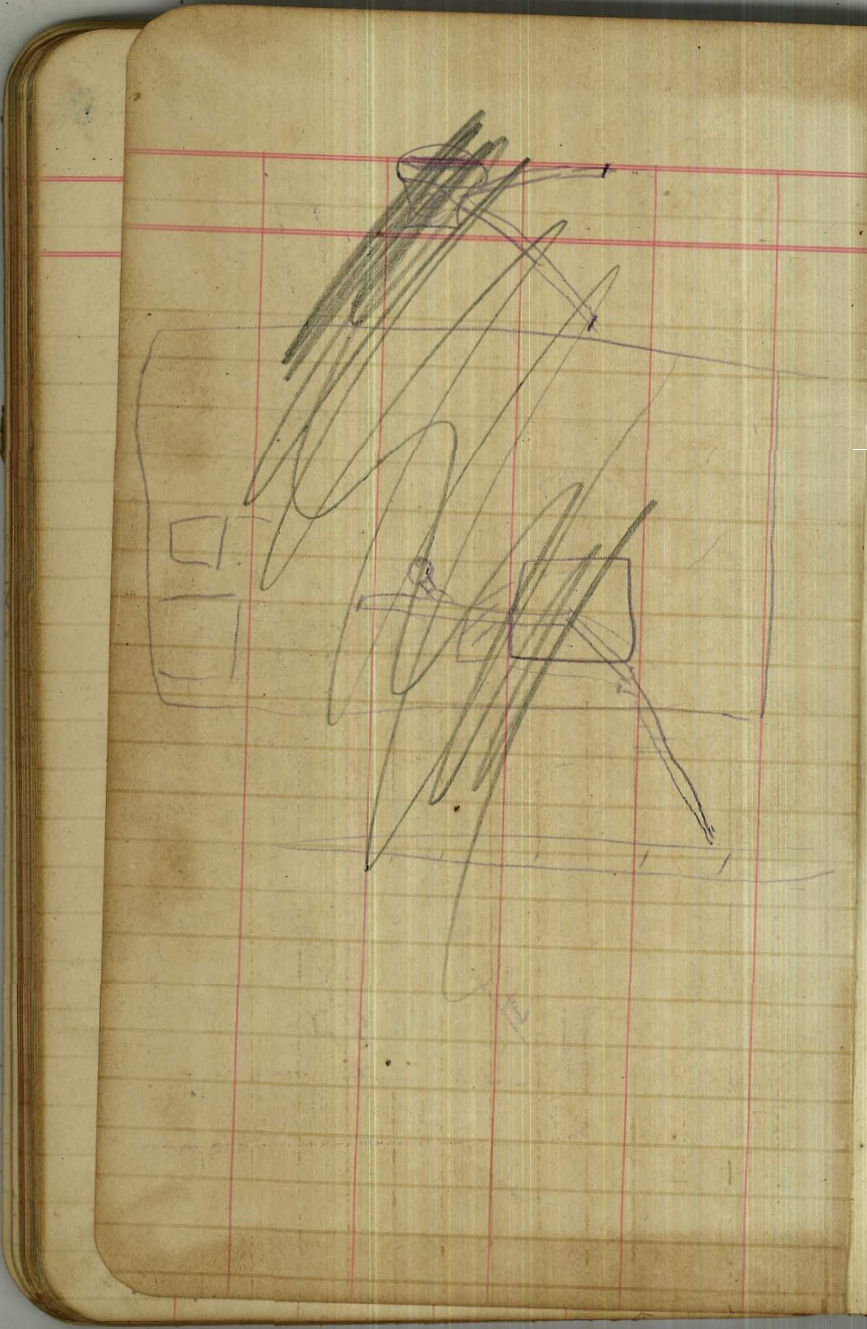
6159

y

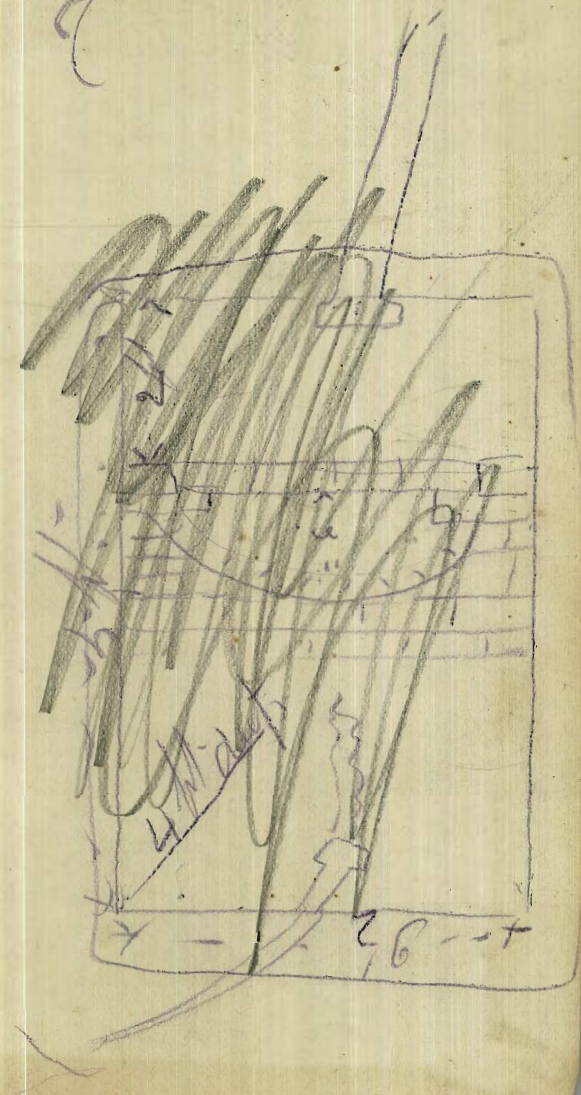
y

y

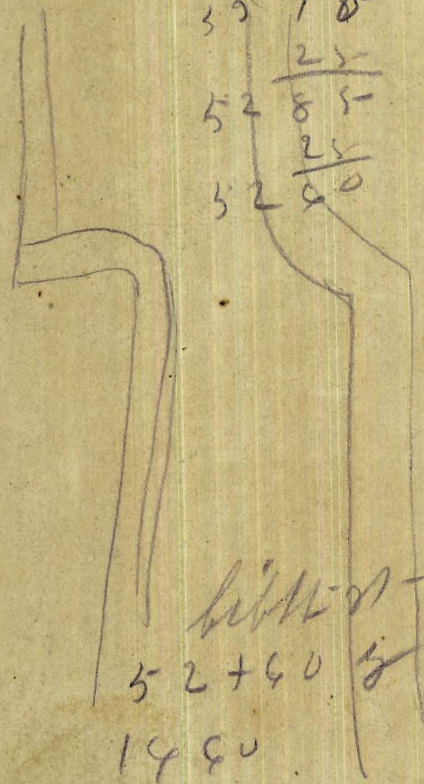
y



18



Howard or Hapten  
at Press



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	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	80
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	79
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	78
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	77
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	76
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	75
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	74
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	73
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	72
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	70
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	69
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	68
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	67
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	66
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	65
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	64
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	63
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	62
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	61
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	60
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	59
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	58
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	57
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	56
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	55
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	54
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	53
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	52
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	51
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	50
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	49
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	48
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	47
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	46
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	45
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	44
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	43
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	42
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	41
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	40
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	39
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	38
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	37
45	70.71	70.71							36

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