

City Sewers

~~7th St. Levels~~

9

TRANSIT.

F.B.703

703

Table 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

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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

STREET
GRADES

STREET
GRADES

9

DRAW

links to

Angle. C

°

4

5

6

7

8

9

10

Atlantic

2

	W	C	E
H	-05 -05	-0.5 -0.5	-0.5 -0.5
G	00 00	00 00	00 00
F	05 "	05 "	05 "
E		1.0	
D	15 15	1.5 1.8	15 22
C	2.0 2.0	2.5 2.5	30 30
B	2.5 2.5	30 30	35 35
A	40 40	43 43	45 45
Asw	-0.5 -0.5		10

California

3

	W	C	E
H	00 00	00 00	00 00
G	0.5 0.5	10 10	0.5 0.5
F	2.5 2.5	3.5 3.5	3.5 3.5
E	4.5 4.5	5.5 5.5	5.5 5.0
F	5.0 5.5	6.5 7.0	7.0 7.5
Sta 150	8.0		
C	6.5 6.5	7.5 7.5	7.5 7.5
B	7.0 7.0	8.0 8.0	8.0 8.0
A	8.0 8.0	9.0 9.0	9.0 9.0
Ash	10.0 10.5		11.0 11.5

Arctic

4

	W	C	E
H	0.5 0.5	0.8 0.8	0.5 0.5
G	3.0 3.0	4.0 4.0	4.0 4.0
F	5.5 5.5	6.0 6.0	5.5 5.5
E	7.0 7.0	7.8 7.8	7.5 7.5
D	9.5 10.5	10.5 11.3	10.5 11.0
C	11.0 11.0	12.0 12.0	12.0 12.0
B	11.5 11.5	12.5 12.5	12.5 12.5
A	13.0 13.5	14.0 14.8	14.0 15.0
Ash	15.5 15.5		17.0 17.0

India

5

	W	C	E
H	10 1.0	15 1.8	1.0 1.5
G	6.0 6.5	6.8 7.3	6.5 7.0
F	7.0 7.5	8.0 8.5	8.0 8.5
E	9.0 9.5	10.0 10.3	10.0 10.0
D	13.0 13.5	13.8 14.3	13.5 14.0
C	16.0 16.0	17.0 17.0	17.0 17.0
B	14.0 14.0	15.0 15.0	15.0 15.0
A	19.0 19.5	20.0 20.8	20.0 21.0
ash	22.0 24.0		24.0 26.0

Columbia

6

	W	Q	E	
H		4.3 5.3		
G		10.5 11.0		
F		13.4 13.8		
E		15.3 16.0		
D		17.7 18.2		
C		21.5 21.0		
B		20.3 20.2		
a		27.8 28.5		
ash		30.5 32.0		

State

7

	W	C	E		
I		25 25			
H		7.8 8.8			
G		14.3 15.3			
F		17.0 17.0			
E		19.5 20.3			
D		23.1 23.1			
C		24.8 24.8			
B		27.5 29.5			
A		36.8 37.3			
ash		36.0 38.0			

Union

	W	C	E
I		4.5 5.5	
H		10.3 11.3	
G		16.3 17.3	
F		20.5 21.0	
E		25.0 25.0	
D		27.3 27.5	
C		29.0 29.5	
+150		31.0	
B		37.5 38.5	
a		42.7 43.3	
+150		46.0	
Ash		40.5 41.5	

Front

9

J	20 2.0
I	5.8 7.3
H	11.5 12.5
G	17.0 18.0
F	20.0 20.5
E	27.8 28.8
D	30.3 30.8
C	32.5 32.5
B	36.1 38.1
A	47.8 48.8

W C E
ash 51.5 approx

C First

10

J

I

H

G

F

E

D

C

B

A

W C E

arw

K
 J
 I
 H
 G
 F
 E
 D
 C
 B

ω
 arb

Fourth

12

K

W C E
a

J

ash

I

H

G

F

E

D

C

B

Fifth

13

L

K

J

I

H

G

F

E

D

C

W C E

B

A

Ash

Sixth

14

~~W~~ W C E

M

C

L

B

K

A

J

Asb

I

Beech

H

Cedar

G

Date

F

E

D

10th

15

	C
N	3.8 3.8
M	6.8 8.0 13.0
L	14.5
K	19.5 20.5
J	26.0 27.8
I	34.5 34.8
H	38.5 39.0
G	45.3 46.8
F	52.5 53.5
E	61.8 63.3
D	67.8 68.3

	W	C	E
C		72.3 73.0	
B		74.0 72.3	
A		73.3 73.5	
+150		74.0	
Arts		79.5 81.5	
Beech		106.5 109.5	
+200		124.0	
Cedar		123.5 123.5	
+300		128.0	

	C				W	C	E
N	3.8 5.3				D	71.8 72.9	
M	6.5 6.8				C	79.0 80.0	
L	14.0 15.5				B	84.5 85.5	
K	21.5 22.5				A	86.5 83.5	
J	29.5 31.0						
I	37.8 39.3						
H	44.3 45.3						
G	48.3 49.3						
F	55.5 56.8						
E	63.8 64.8						

Twelfth

17

W C E

N	4.0 2.5
M	4.3 4.5
L	8.5 9.5
K	19.5 20.5
J	34.0 35.0
I	43.0 44.0
H	48.0 49.0
Q	53.5 54.0
F	60 60.3
E	65.8 67.5

D	71.8 72.5
C	84.3 85.0
B	97.8 98.8
A	105.5 106.8

N	3.0 3.0
M	3.5 3.5
L	5.5 5.5
K	11.5 12.5
+150	20.5
J	34.5 37.0
I	44.3 44.5
H	49.0 50.5
G	52.8 52.8
F	60.3 60.3
E	60.3 59.5

D	58.0 58.5
+150	52.5
C	56.5 68.5
B	86.0 89.0
A	118.00 121.0

	C					
N	3.5 3.5					
M	7.5 7.5					
L	9.5 18.0					
K	14.0 14.5					
J	21.0 21.5					
I	32.5 35.5					
+150	44.0					
H	46.5 46.5					
G	44.5 44.5					
F	49.5 49.5					
E	50.0 49.5					

	W	C	E
D		53.8 56.0	
+150		61.5	
C		73.0 76.0	
B		108.5 111.5	
A		137.0 140.0	

15 Fifteenth

20

N

M

L

K

J

I

H

G

F

E

D

C

B

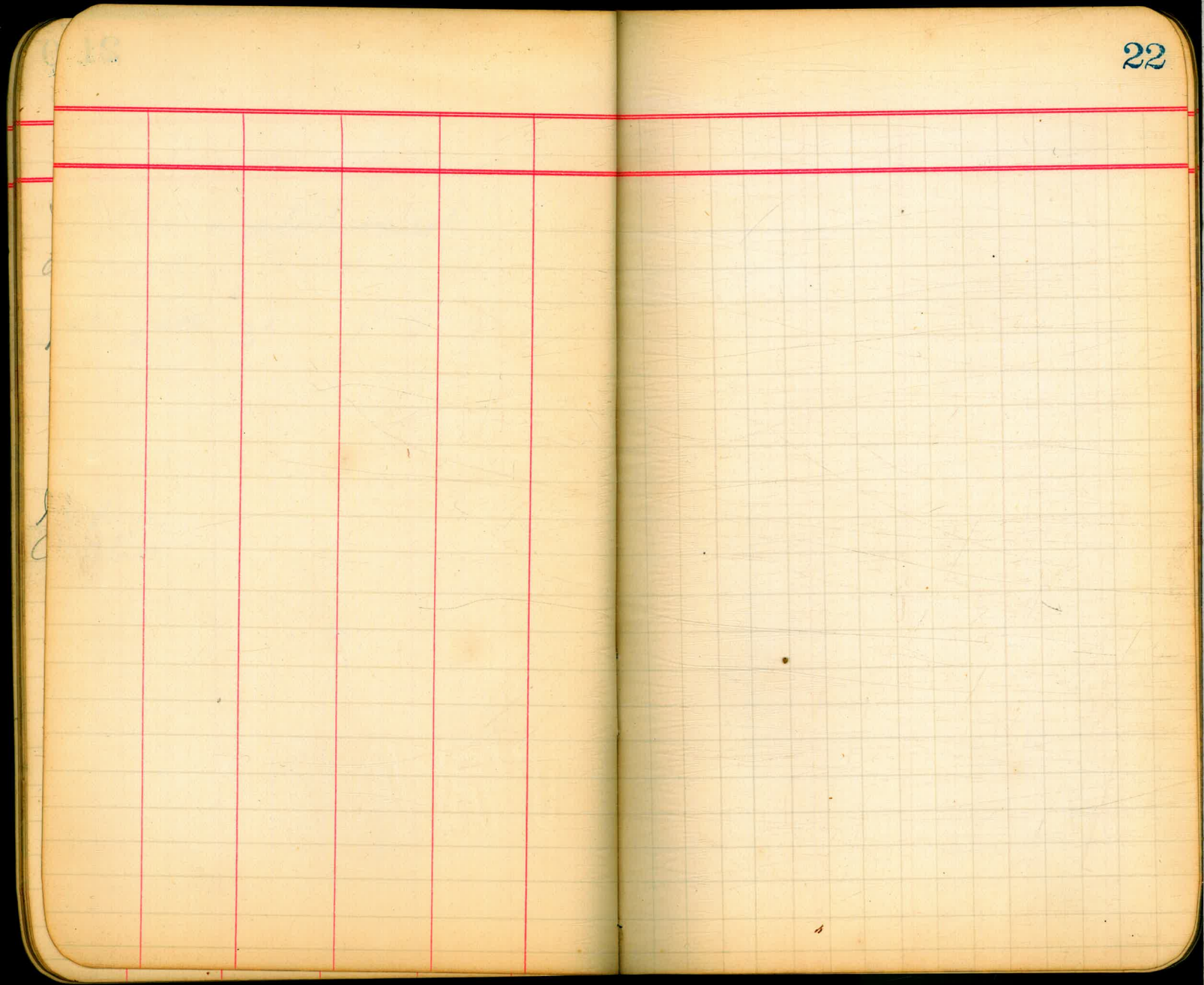
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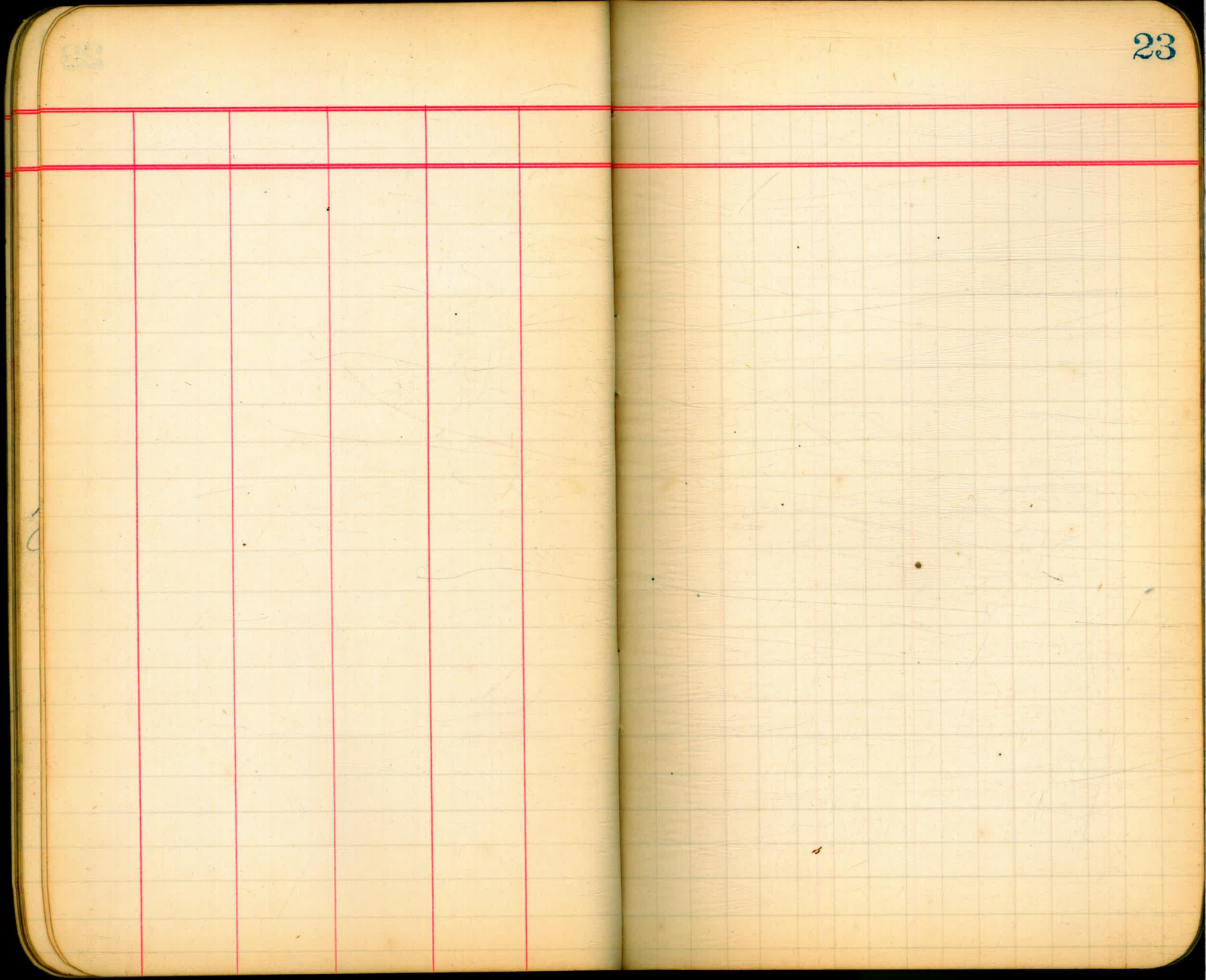
Sewerage

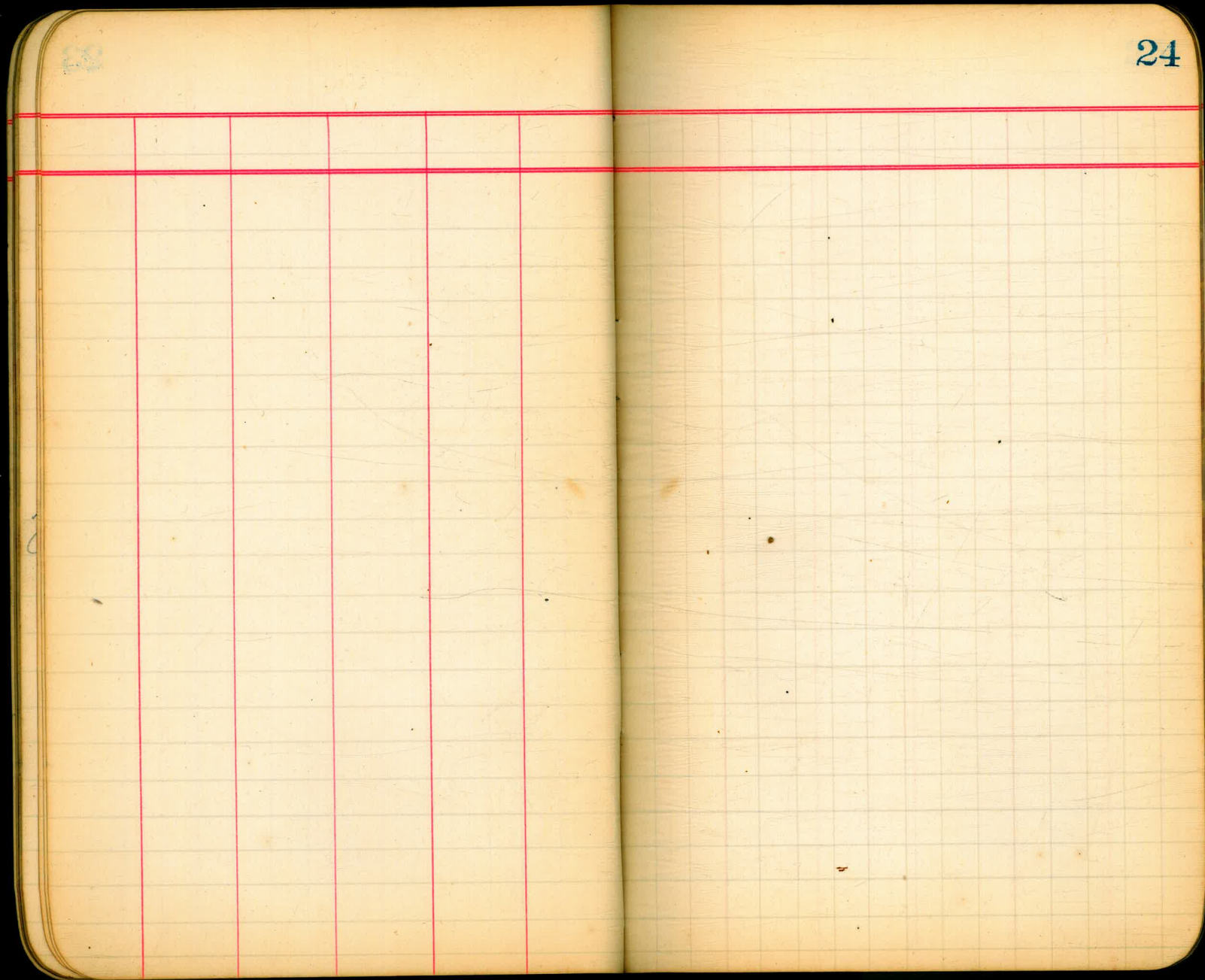
Streets stationed
according to old style

1st 2nd 3^d 7th 8th 9th 10th

India
Arctic





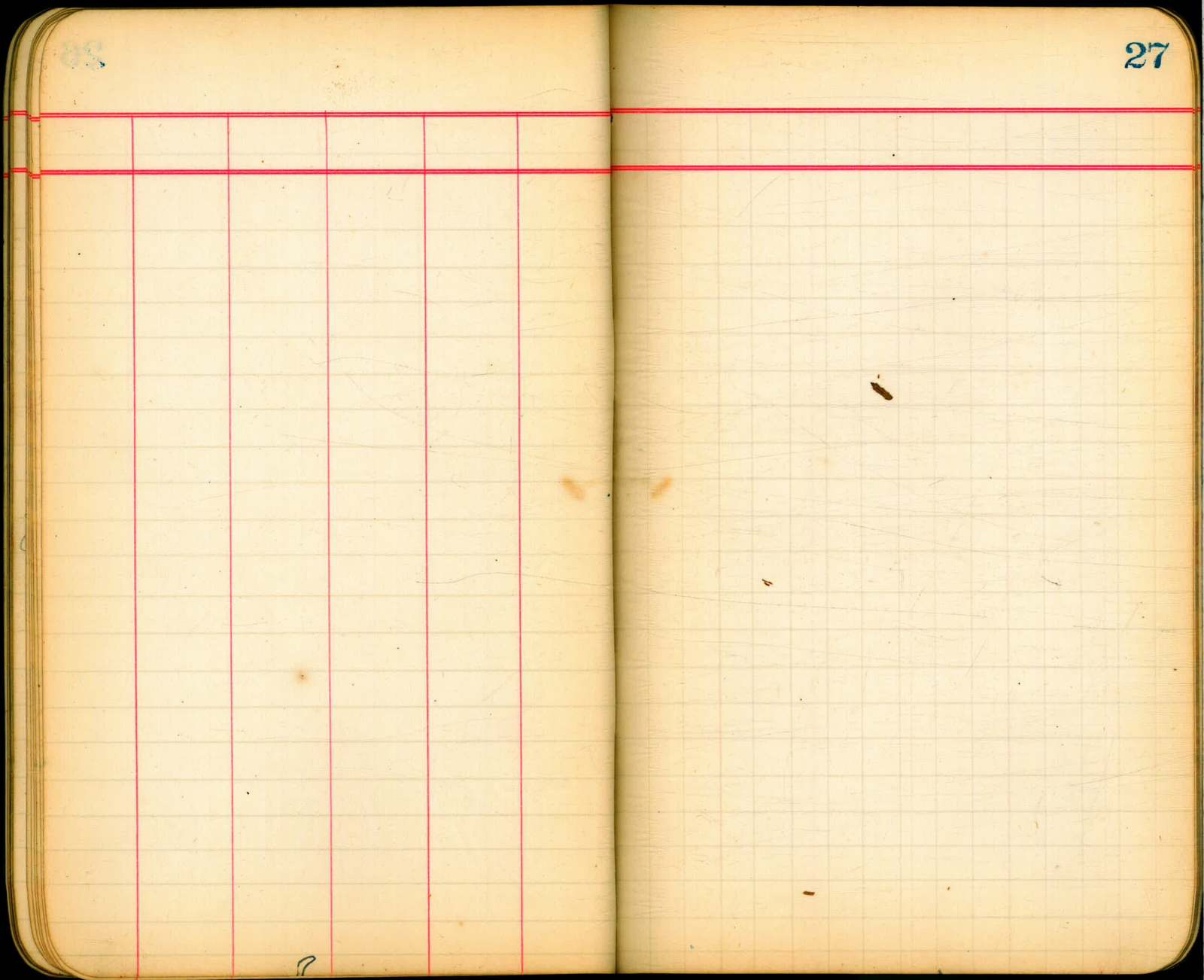


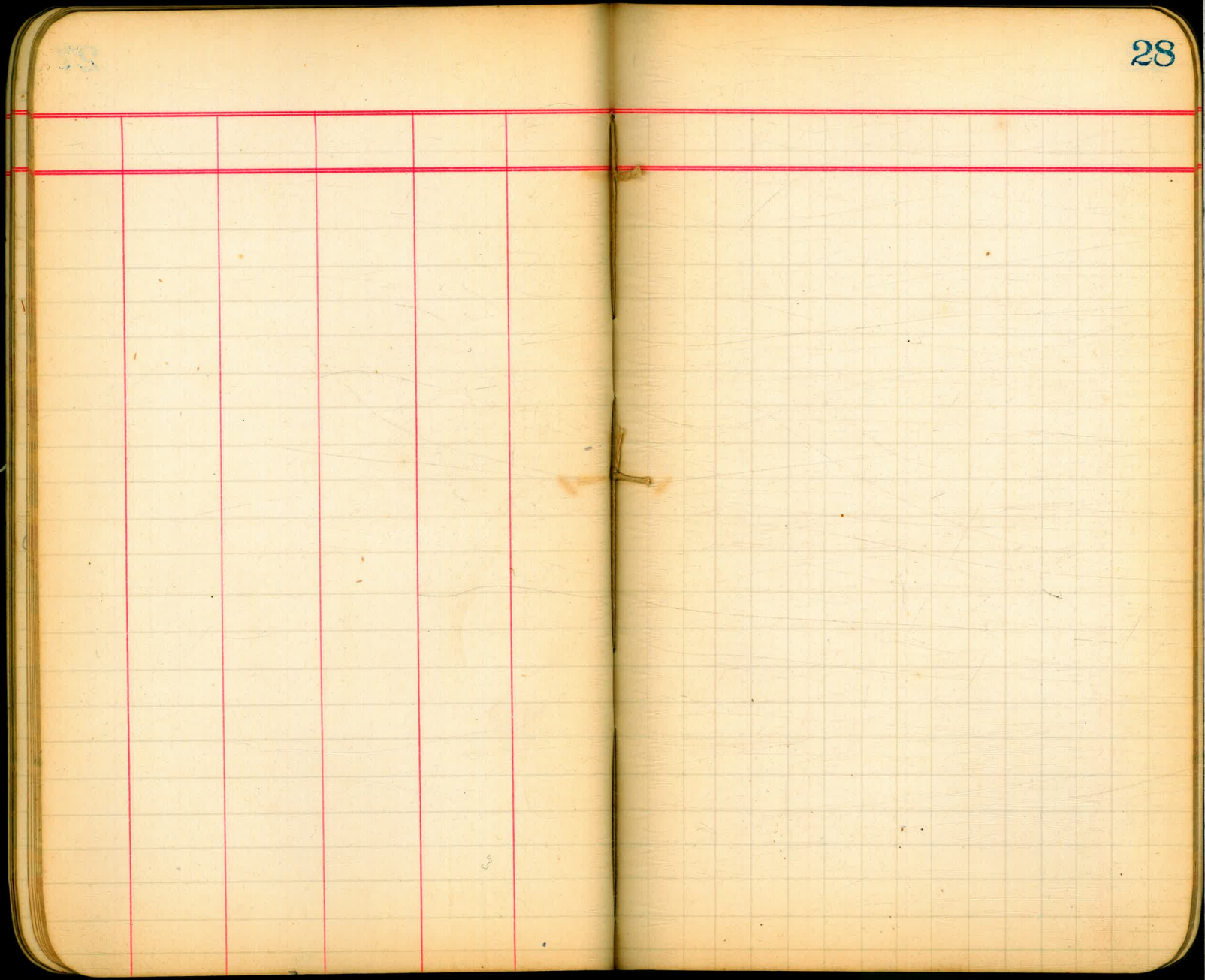
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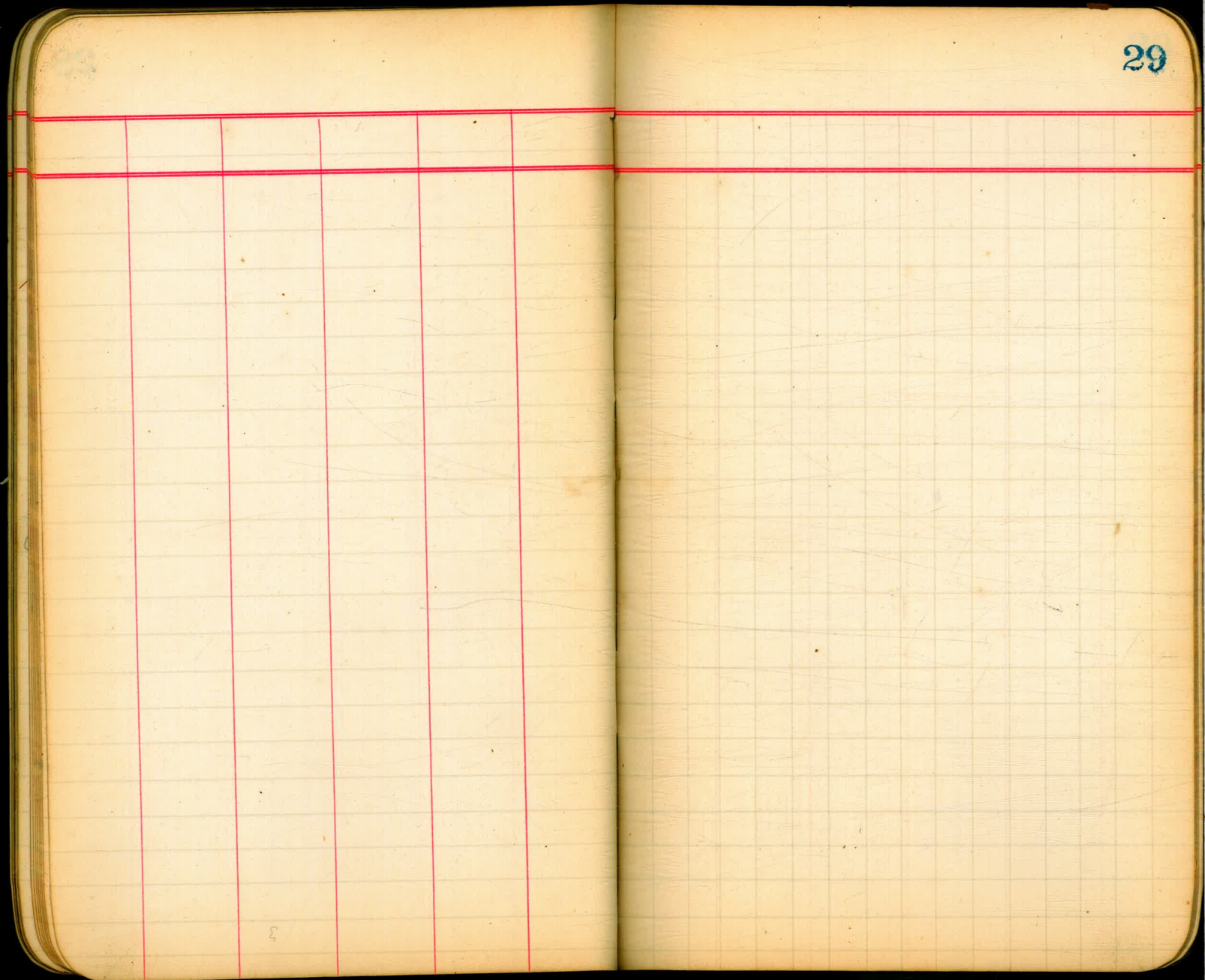
25

The image shows an open notebook with two pages. The left page is ruled with a grid and has a vertical margin line on the left. The right page is ruled with a grid. The pages are yellowed and show signs of wear. The notebook is placed on a white surface.

The image shows an open notebook with two pages. The left page is ruled with a grid and has a header row defined by two horizontal red lines. Below the header row, there are five vertical red lines that divide the page into six columns. The right page is ruled with a standard grid. The notebook is placed on a white surface, and the page number '26' is printed in the top right corner of the right page.

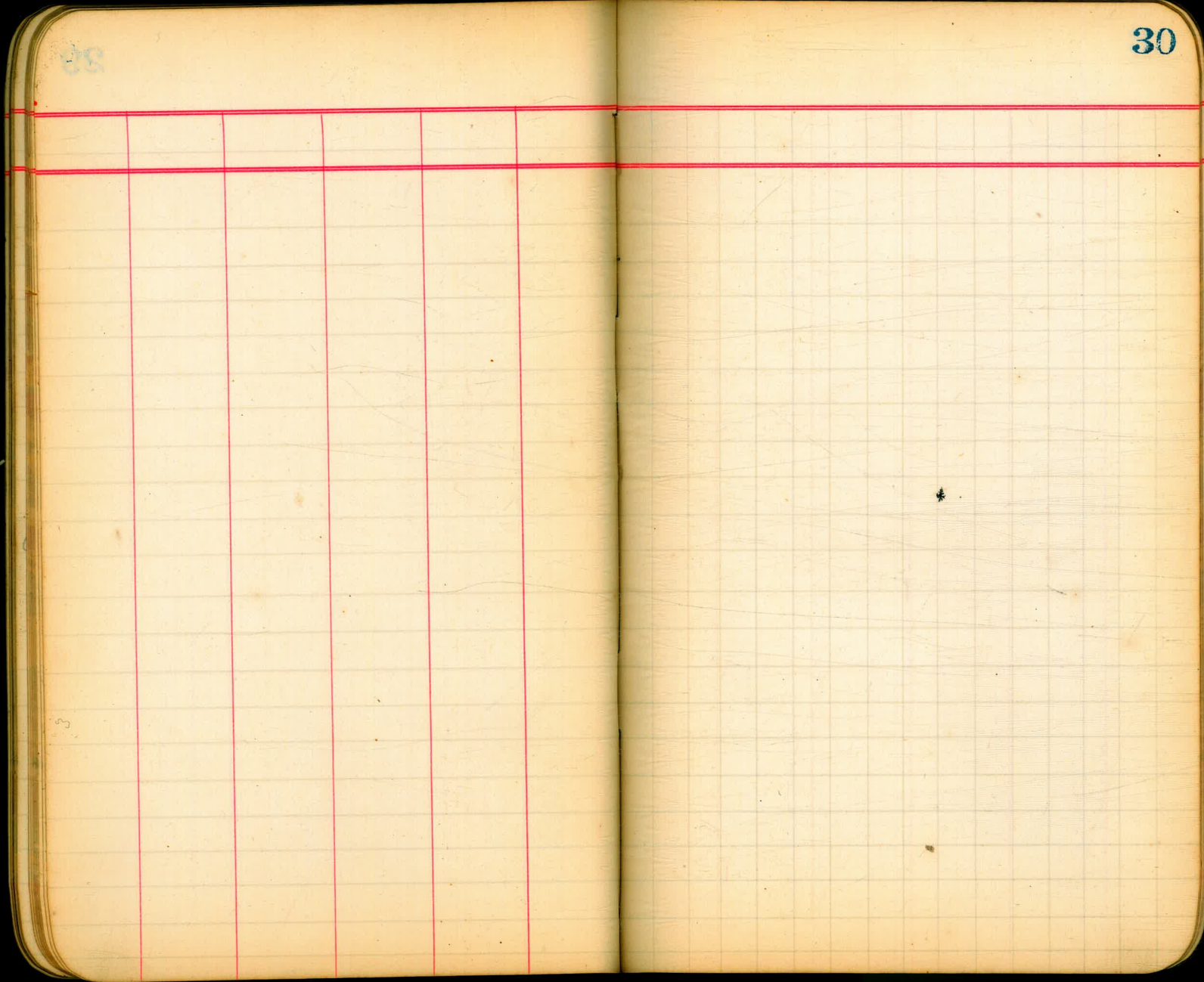






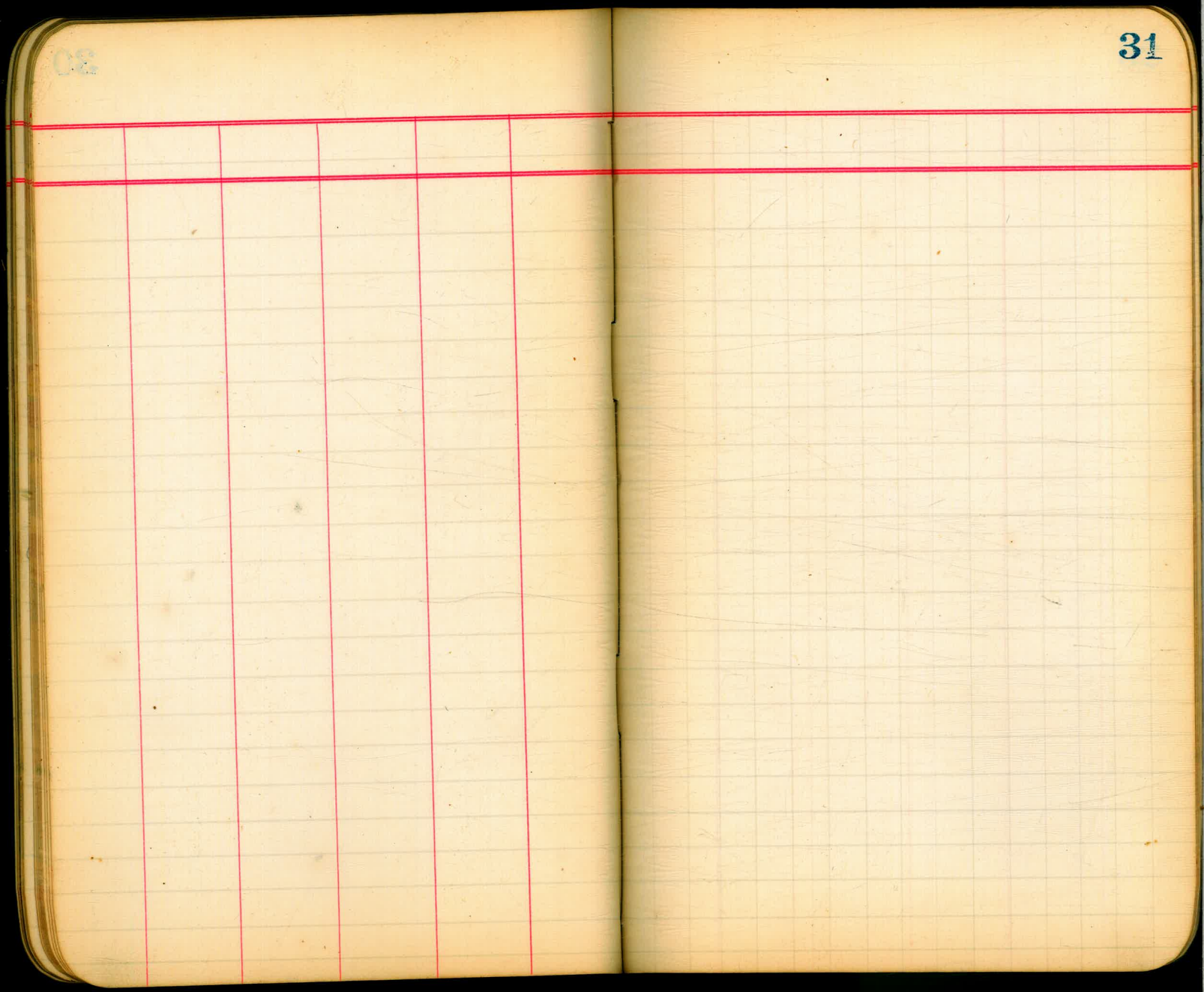
28

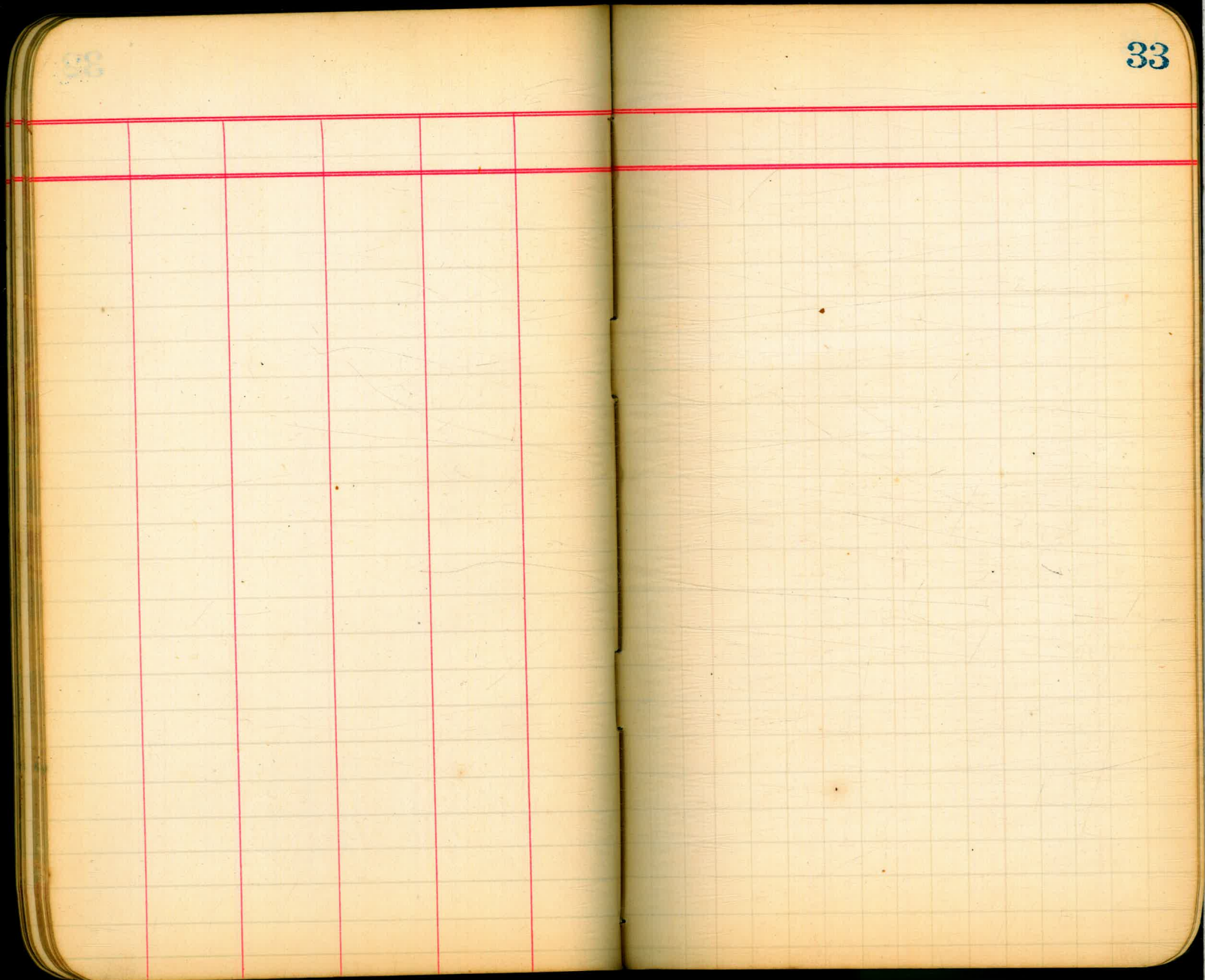
30



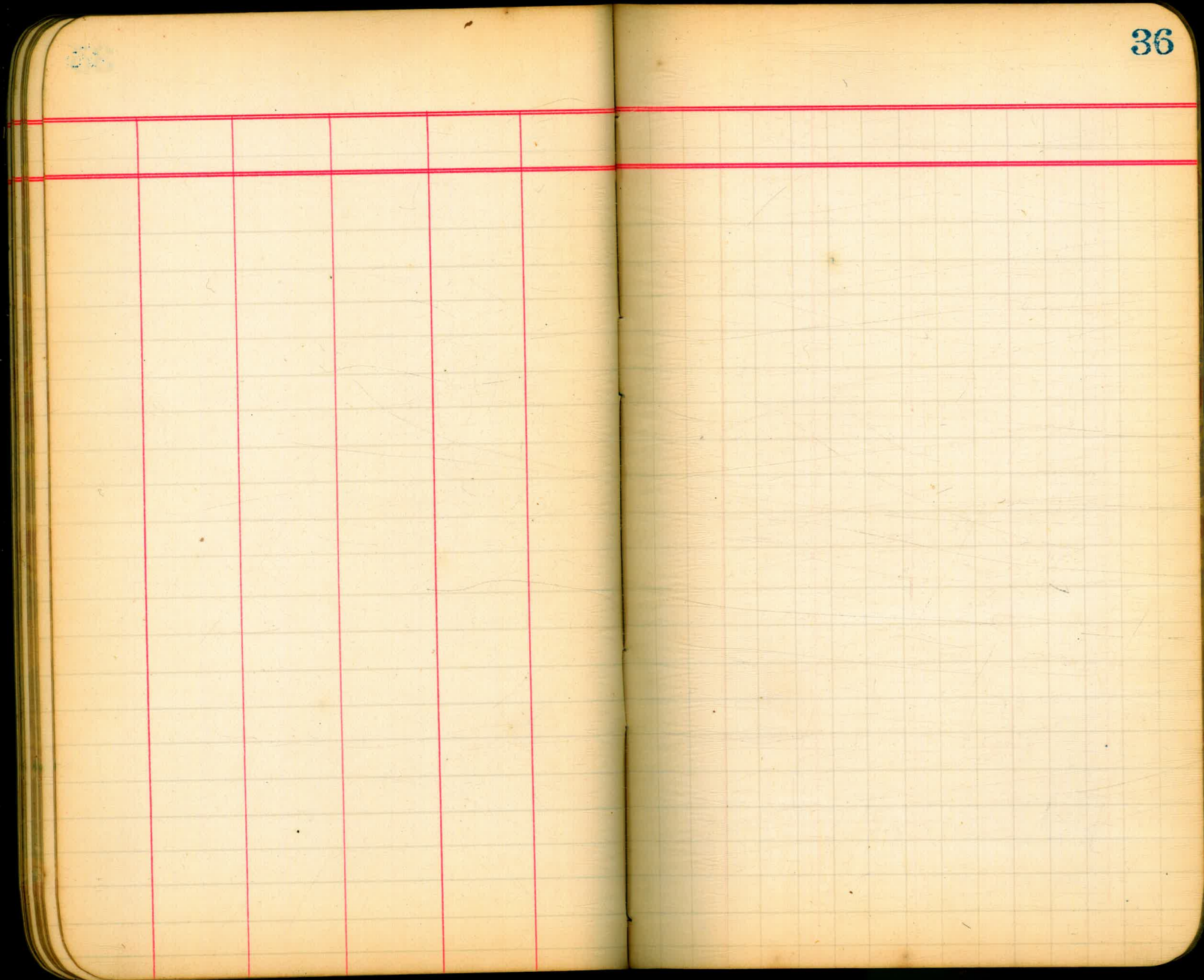
08

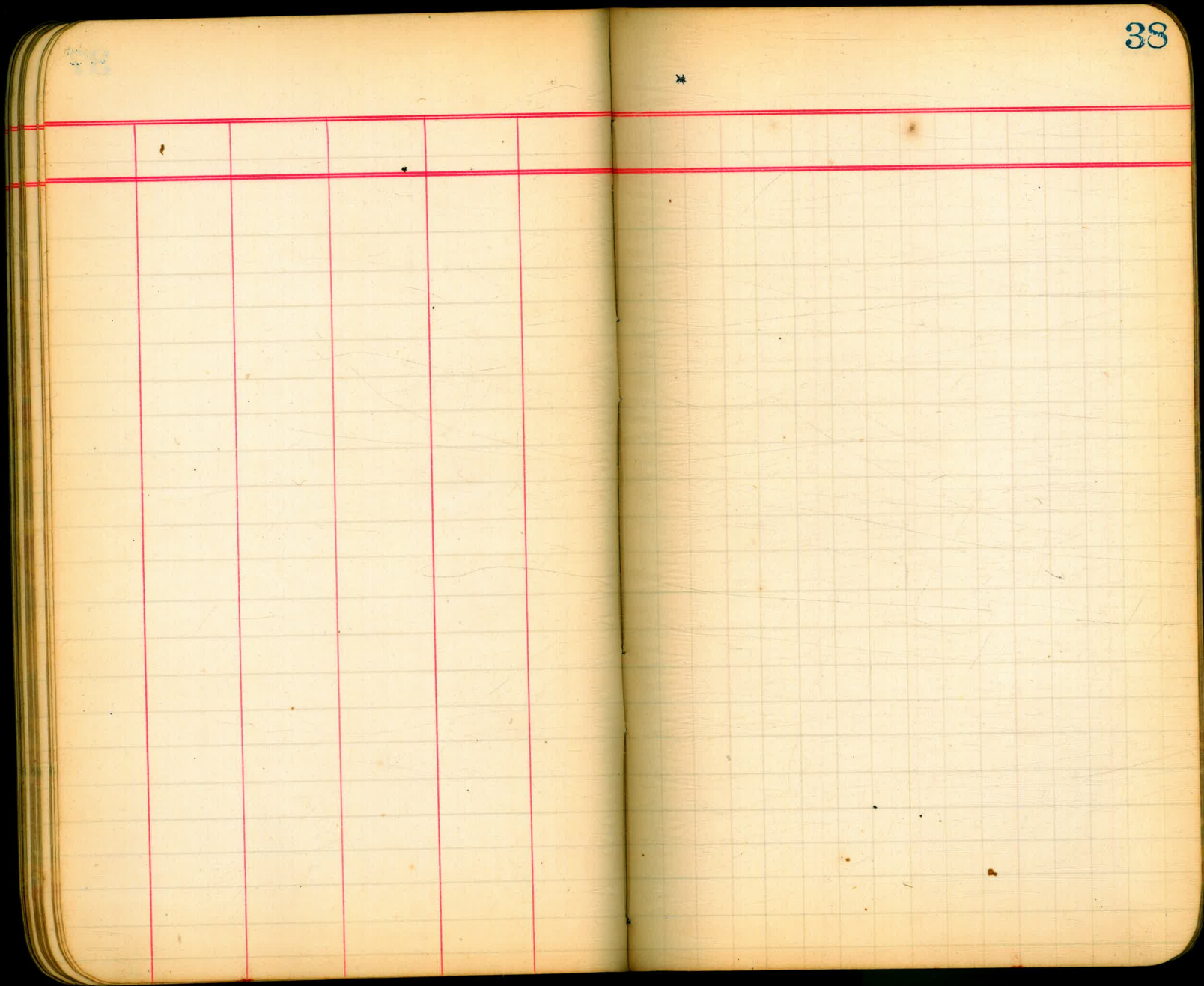
31



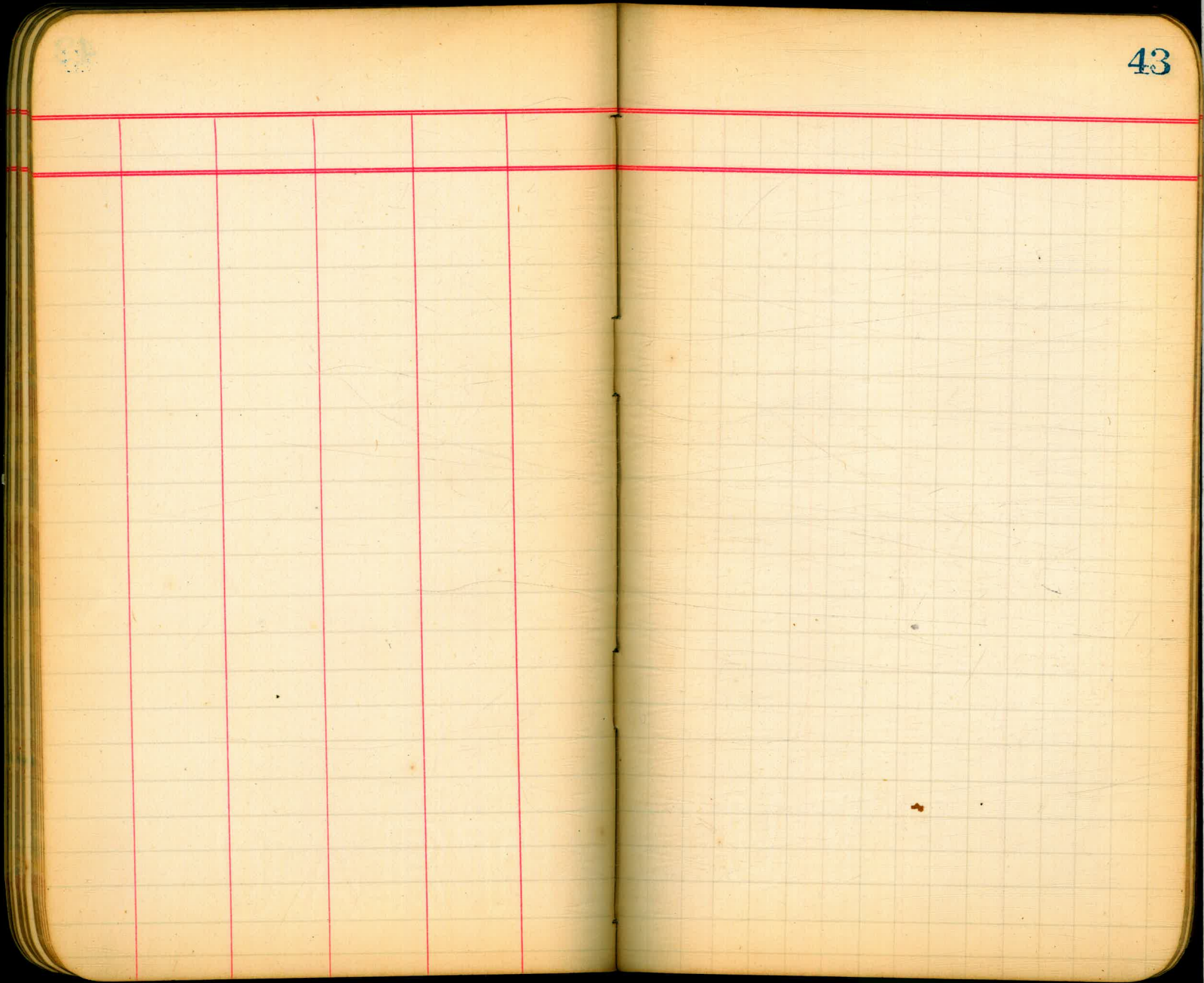


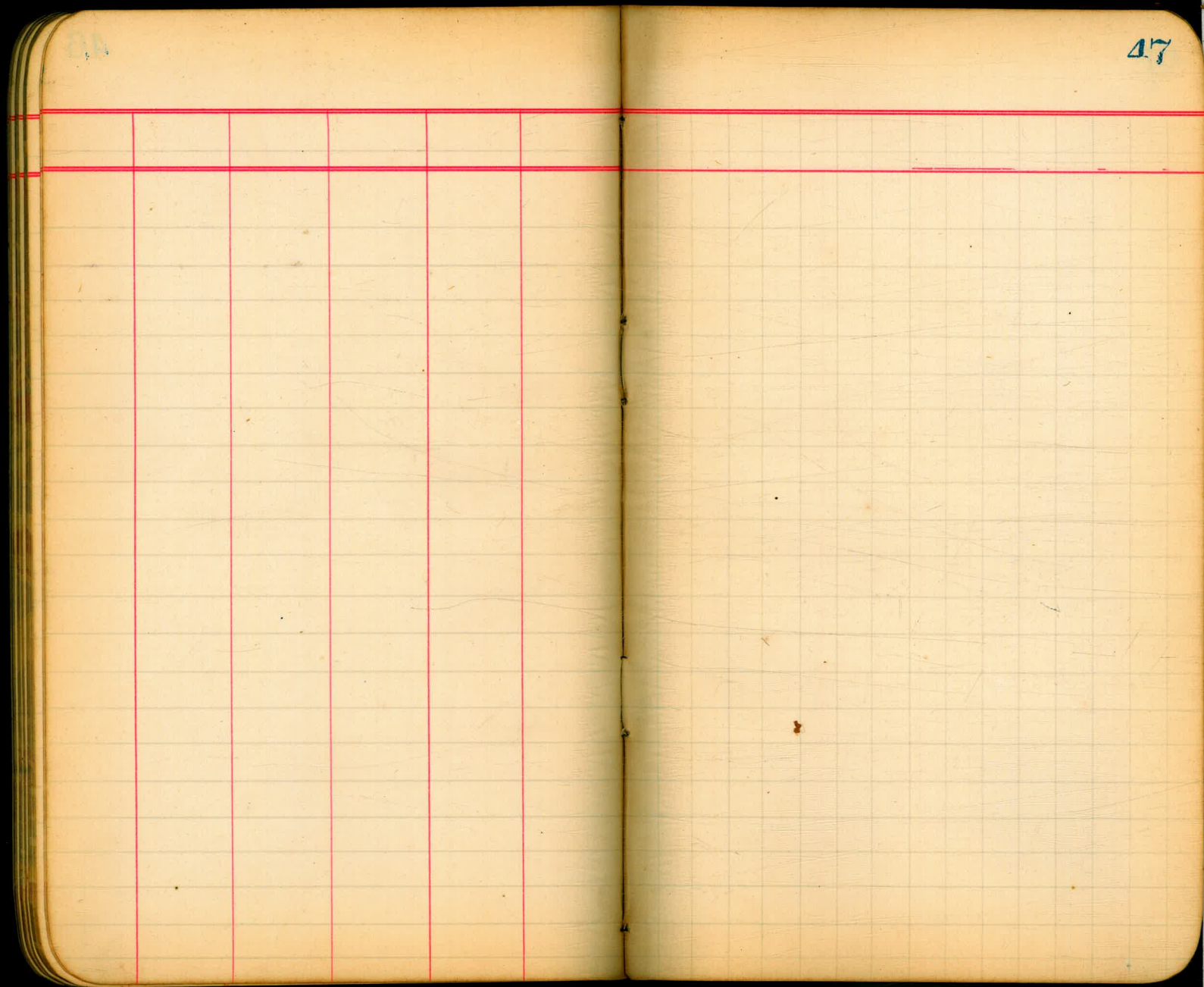
The image shows an open notebook with two pages. The left page is ruled with a grid and has five vertical red lines, creating six columns. The right page is ruled with a grid. The pages are yellowed and show signs of wear. The notebook is placed on a white surface with some speckles.





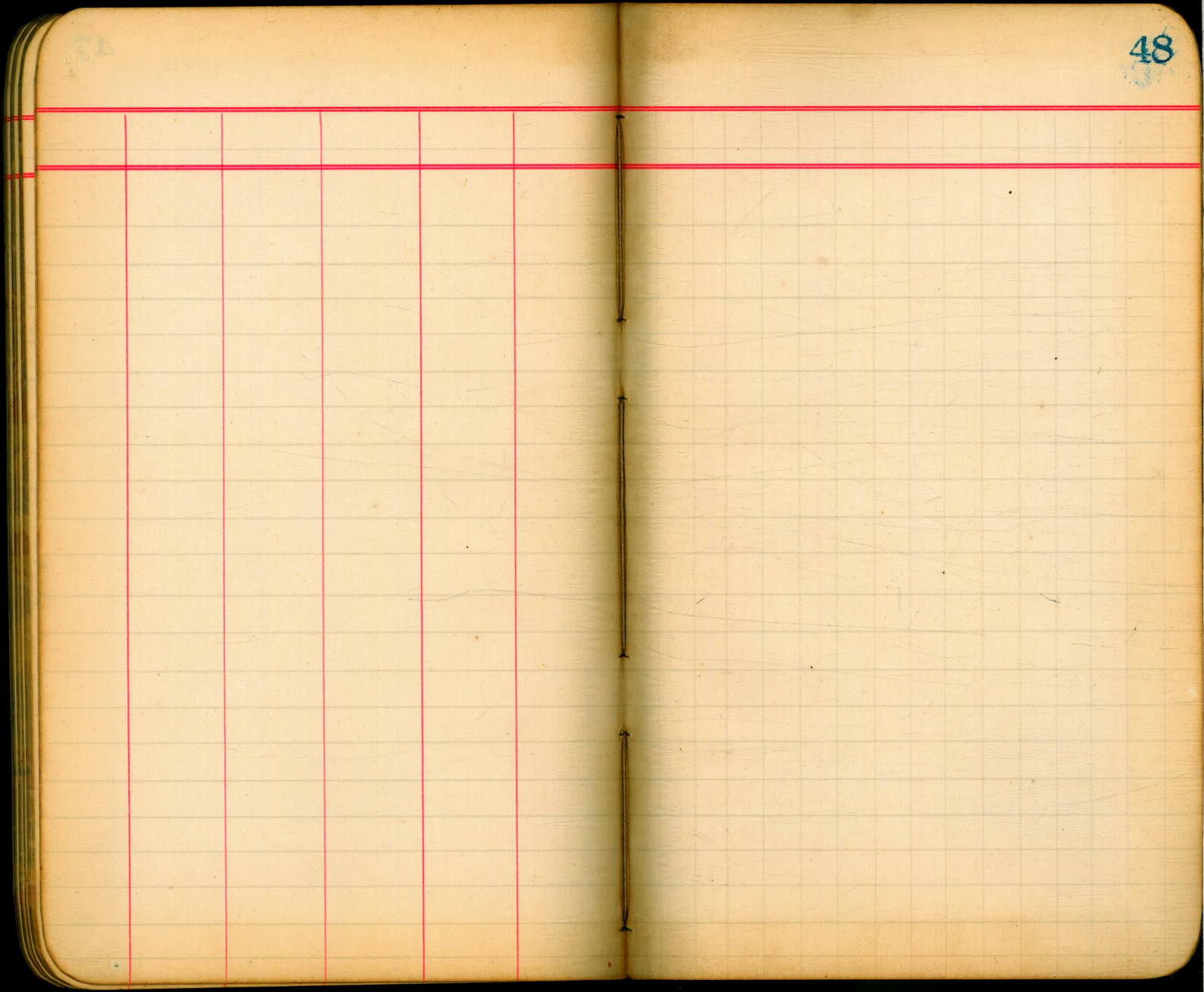
The image shows an open notebook with two pages. The left page is ruled with a grid and has two vertical red lines. The right page is ruled with a grid. The pages are yellowed and show signs of wear. The notebook is placed on a white surface with some speckles.

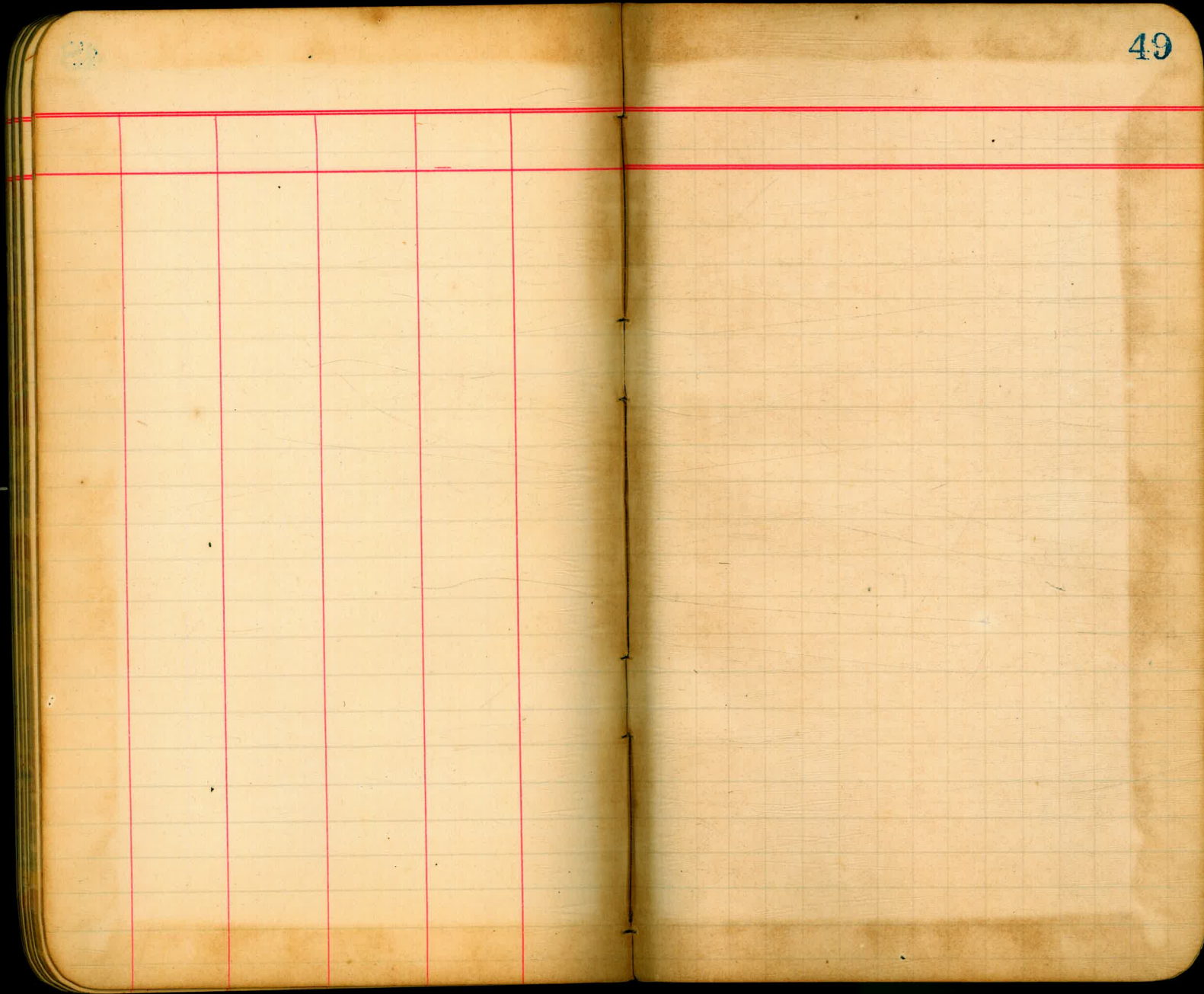




47

48





J + 11
~~11 + 14~~
 E + 14

11 E + 14 44
 25 5 5 55
 5 5 5 5 5 5
 5 5 5 5 5

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.	
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		
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	87.81	20.79	97.72	21.22	97.68	21.64	97.53	22.07	73
13	87.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	72
14	87.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	71
15	86.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	70
16	86.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	69
17	85.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	68
18	85.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	67
19	84.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	66
20	83.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	65
21	83.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	64
22	82.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	63
23	82.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	62
24	81.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	61
25	80.63	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							
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

402602E

200'00"

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