

California State

No 11

ASH

9

TRANSIT

F.B. 709

709

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.
°		°		°		°	
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

California Street

W	E	W	E
			5x47 vac.
	2x67	5x45	
2x65			5x22
	2x41½	5x20	
2x89½			4x96½
	2x16	4x94½	
2x14			4x72
	1x91½	4x70	
1x89½			4x46
	1x66	4x44	
1x64			4x22
	1x42	4x20	
1x40		3x62	6 m y running
	1x16		
1x14			
	8x91½	South line of Beach 3x42 Fins	
0x89½			
	0x67		3x16
0x65		3x14	
	0x43		2x91½
041		2x89½	

running North from Ash

1

East for Beach

California sheet wings

North from Ash st

2

9W

♀

2

2

2

South lin Cedar

7+20 ♀

6+952

16+942

6+71

16+69

6+462

16+44½

6+21½

66+192

5+952

65+942

5+712

65+892

The image shows an open notebook with two pages. The left page is ruled with a grid of light blue lines. A vertical red line is drawn near the left margin, and four more vertical red lines are spaced across the page, creating five columns. The right page is ruled with a grid of light blue lines. A horizontal red line is drawn near the top margin, and another horizontal red line is drawn near the bottom margin, creating three rows. The number '5' is printed in the top right corner of the right page. The notebook is placed on a white surface.

Ask street running East to Union

N S

15+95 End of 8 in pipe Manhole
15+72

West line of Union street

15+70
15+47 1/2

15+45 1/2
15+21 1/2

15+18 1/2
14+97

14+95
14+71 1/2

14+69 1/2
14+47

14+45
14+21

14+19
13+94 1/2 East side of State St

13+94 1/2

13+40 6 in by running North for State Street

From Atlantic up Ash street

N S

West end of
State st
13+22 In

over

12+02 end of 10^m pipe on Ash st

10+65 5 m of ironing North for

7+85 5 m of Nats for India

7+72 Man Hole West end of

4+97 5 m of Nats for Arctic st
3+97 1/2

3+95 1/2

2+07 8 m of Nats for Caliform

1+22 center of Black lower

1+20

0+46

0+44

0+21

0+19

Orman

connected with pipe

Columbia street

India street

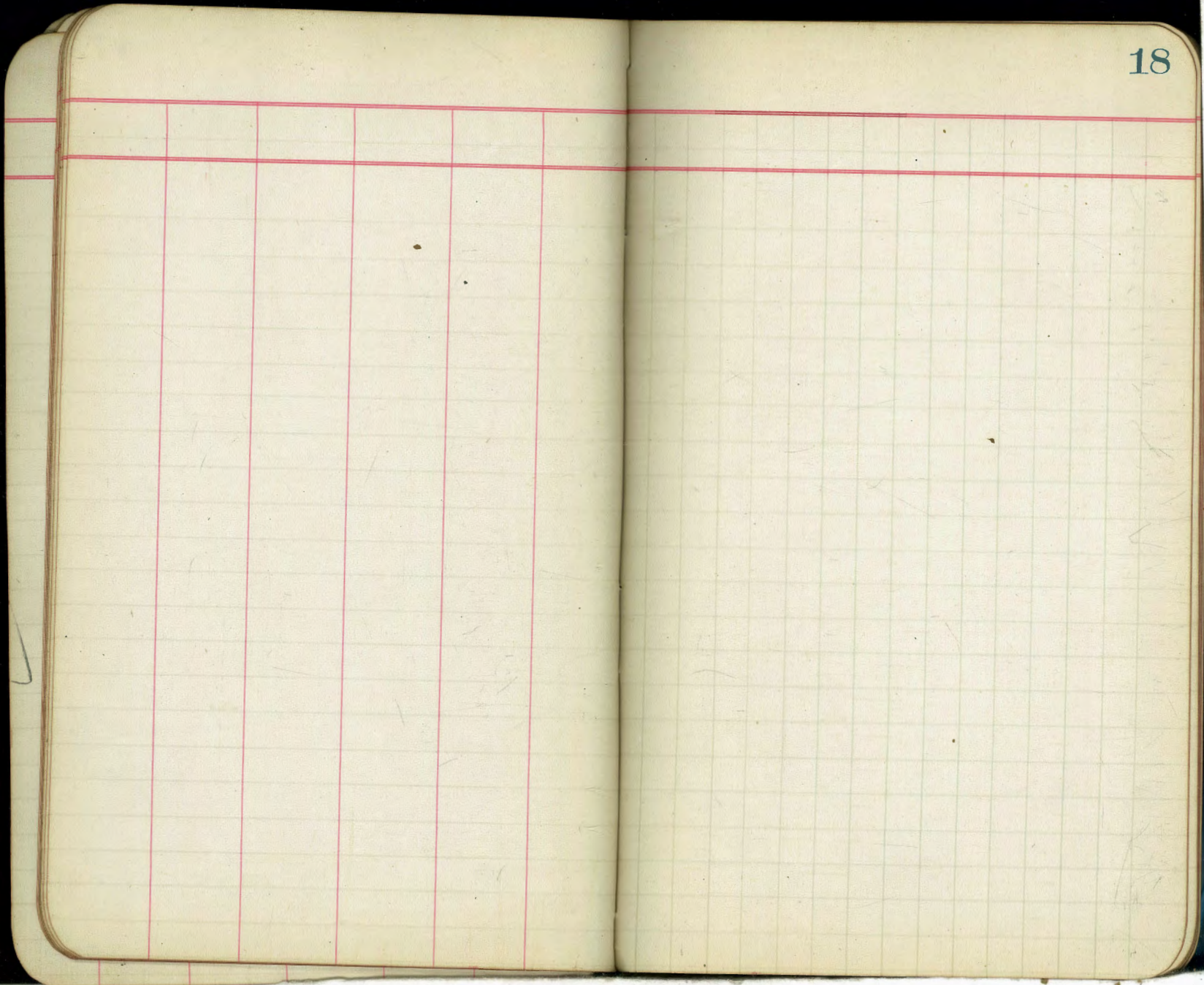
end of Ash st

from Atlantic street st run up

Ash street East

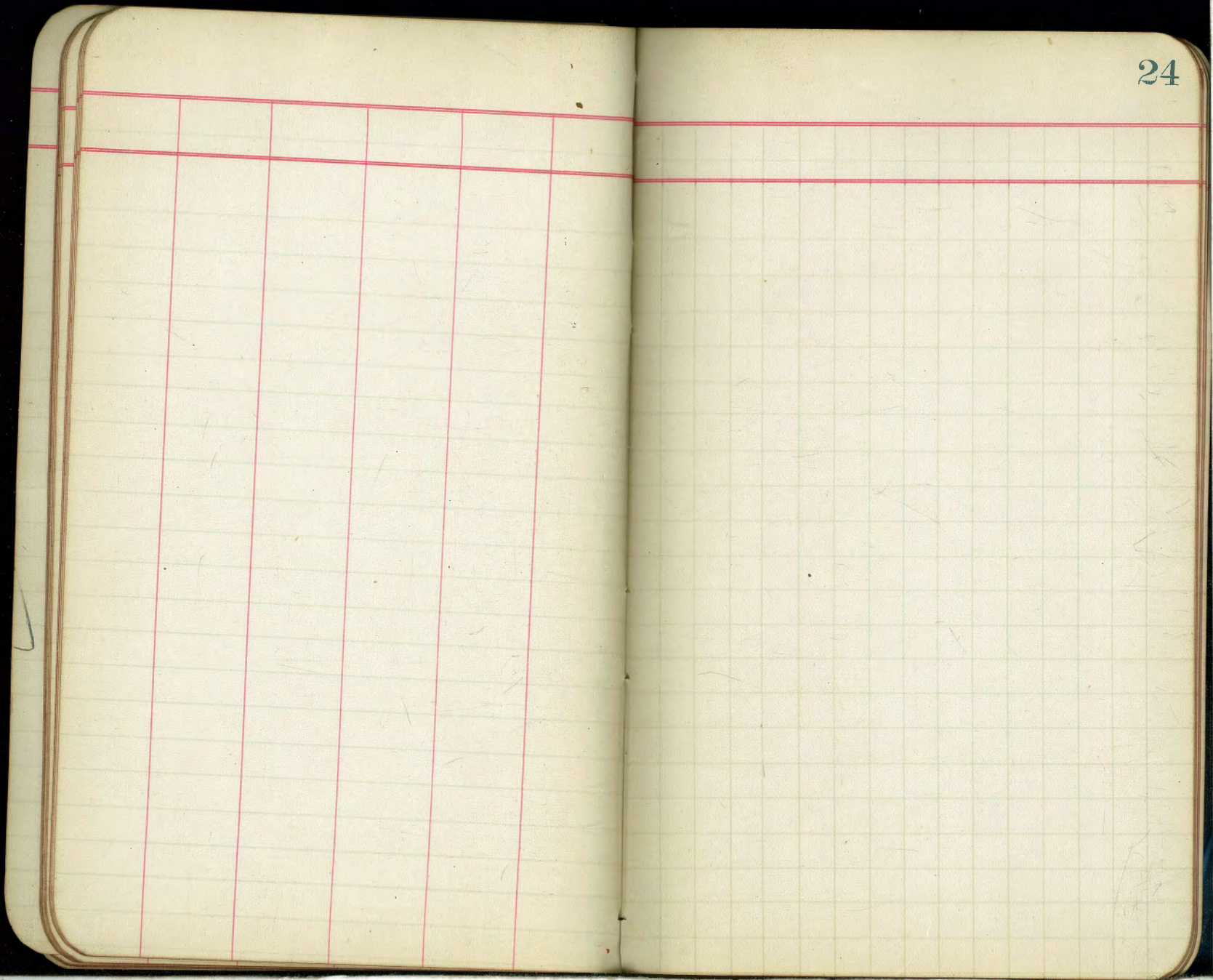
India street North of Ast street

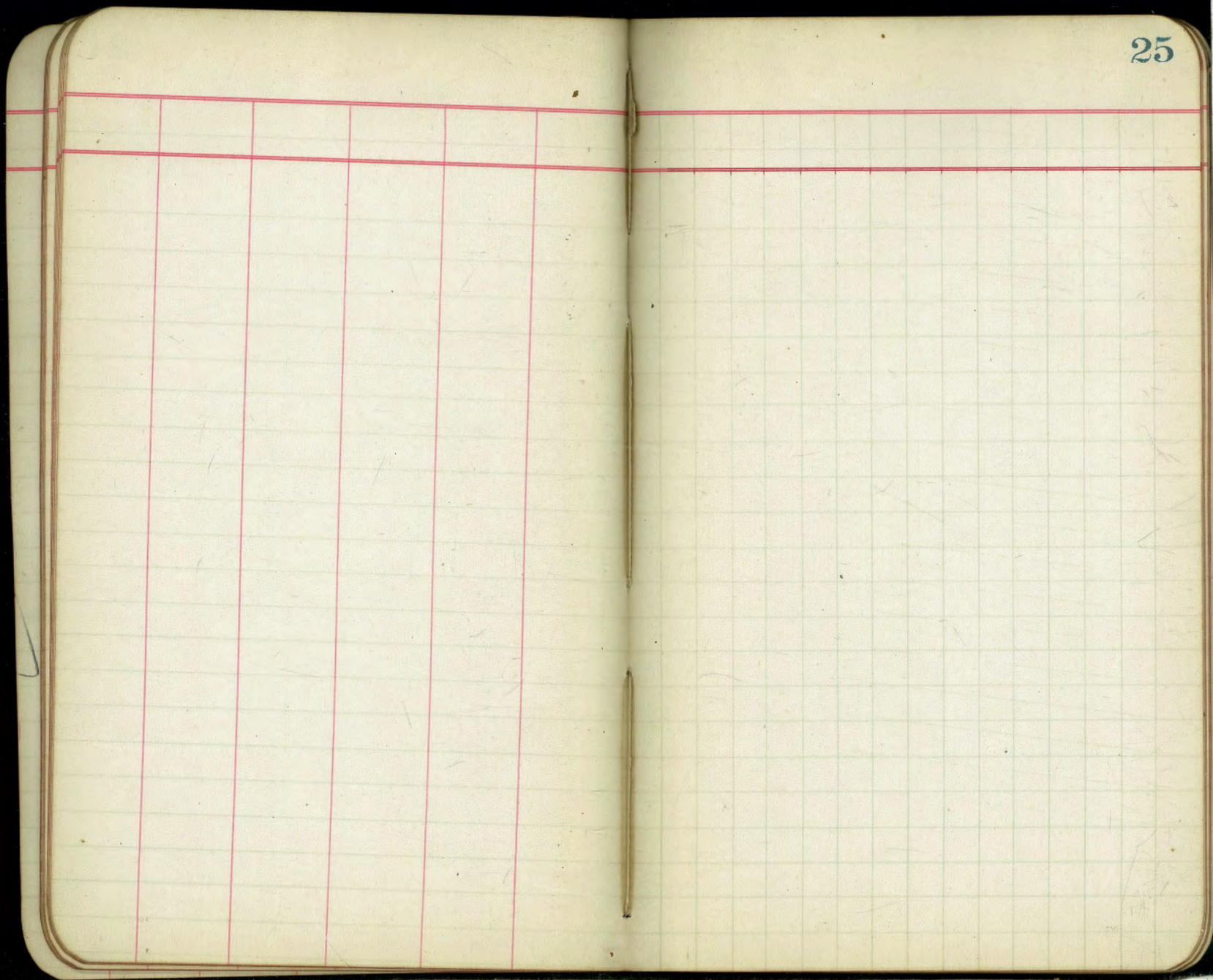
W	E	W	E
	2+82½		
2+80½			
	2+56		
2+54			
	2+32		
2+30			
	2+07		
2+05			
	1+81½		
1+79½			
	1+57		
1+55			
	1+31½	Yours line of Beach	
1+29½		3+57	Iron
	1+06½		3+31
1+04½			
	0+82	3+29	
0+80			3+06½
	0+58½	3+04½	
0+56½			
0+ man Hole			

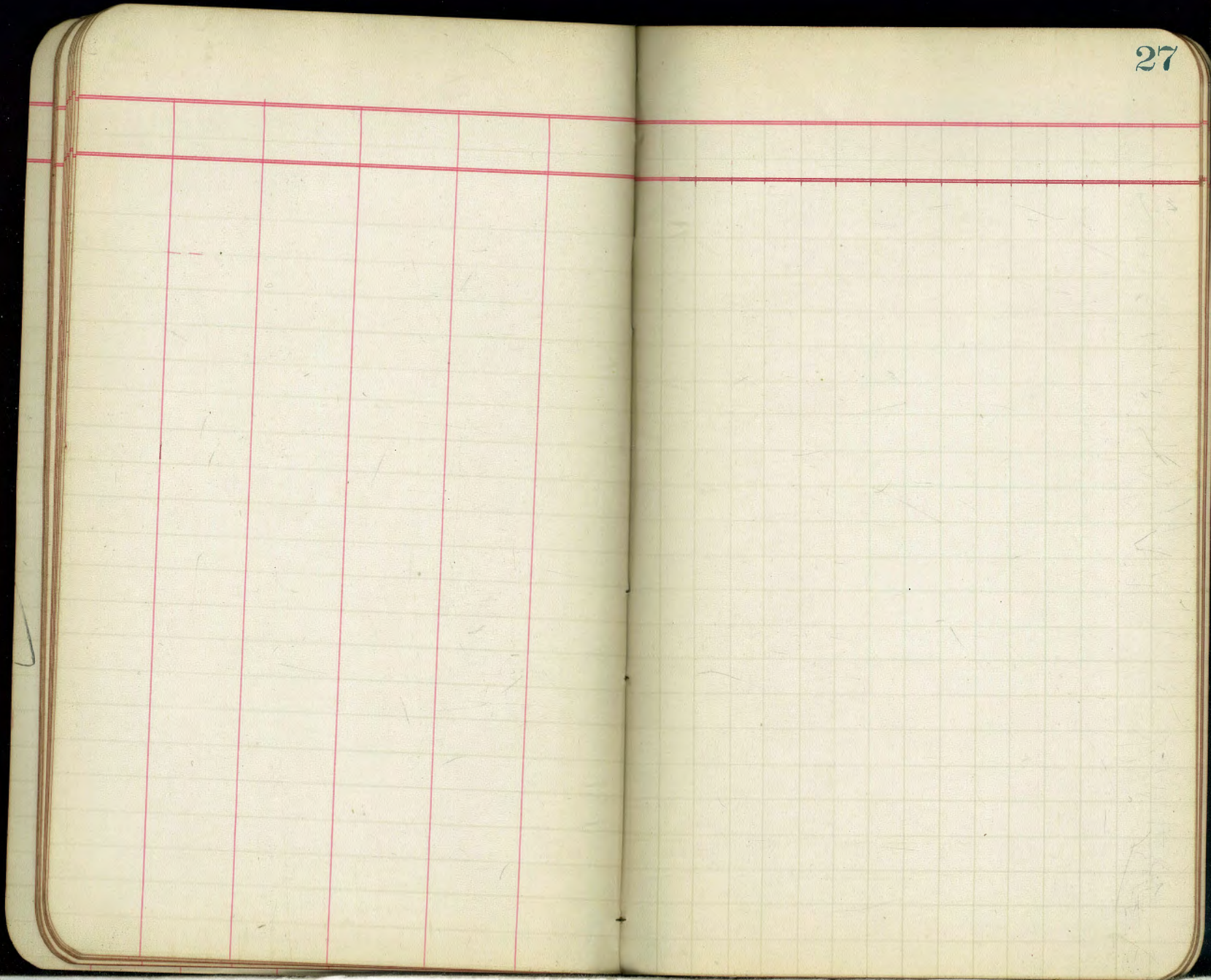


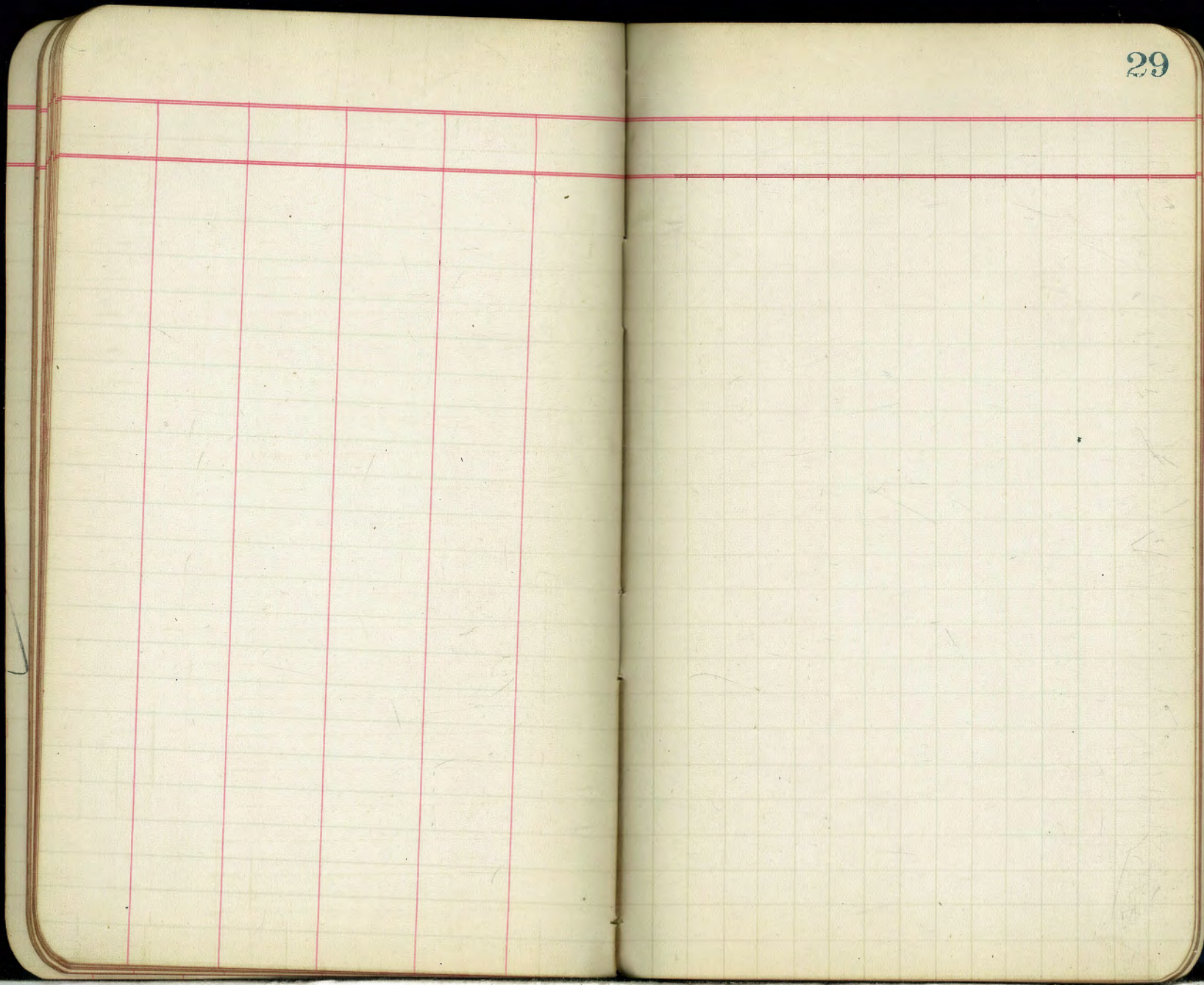
The image shows an open notebook with two pages. The left page is ruled with a grid of 6 columns and 20 rows. The right page is ruled with a grid of 10 columns and 20 rows. The number '20' is printed in the top right corner of the right page. The pages are cream-colored and show signs of wear, including some faint smudges and a small dark spot on the left page.



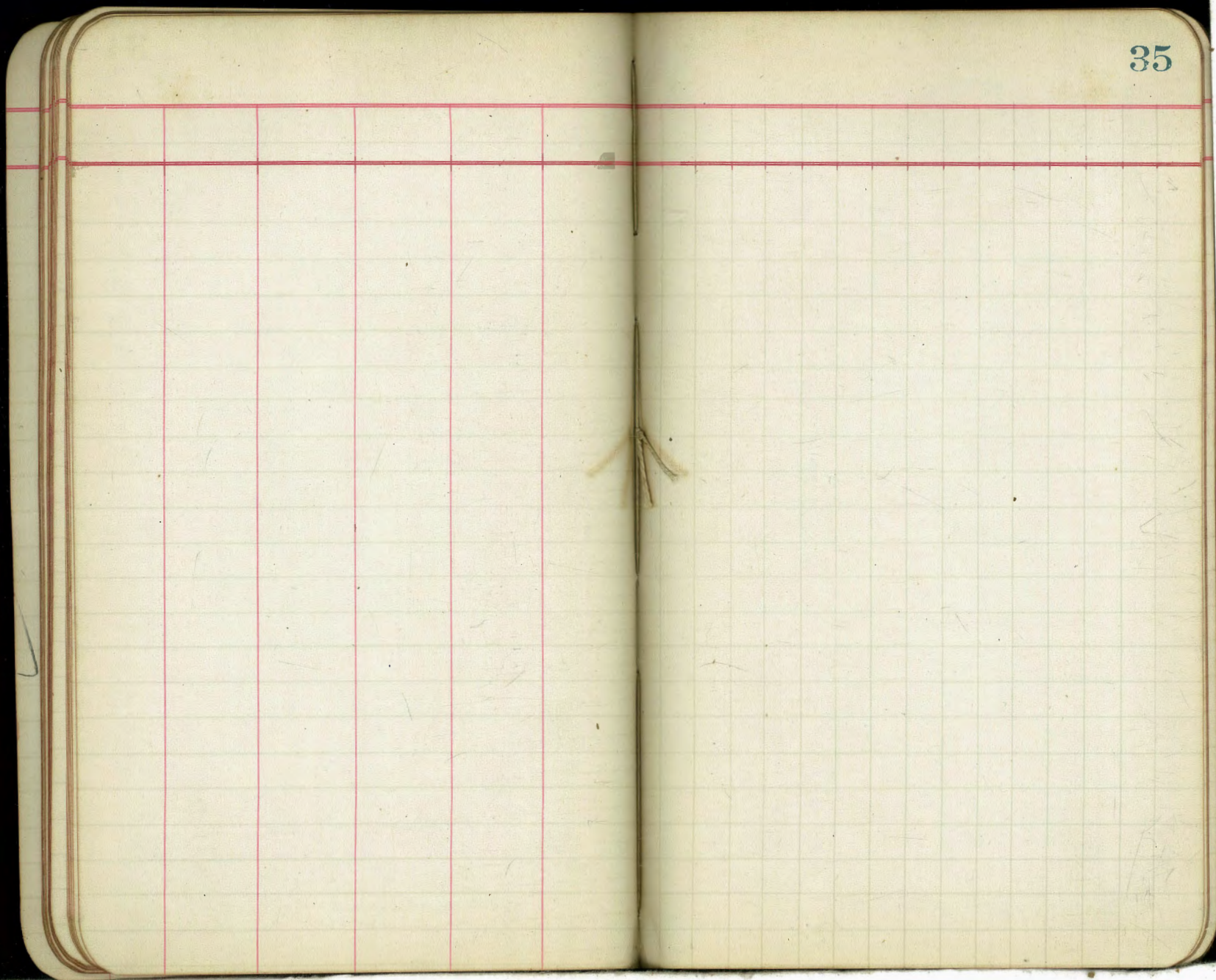




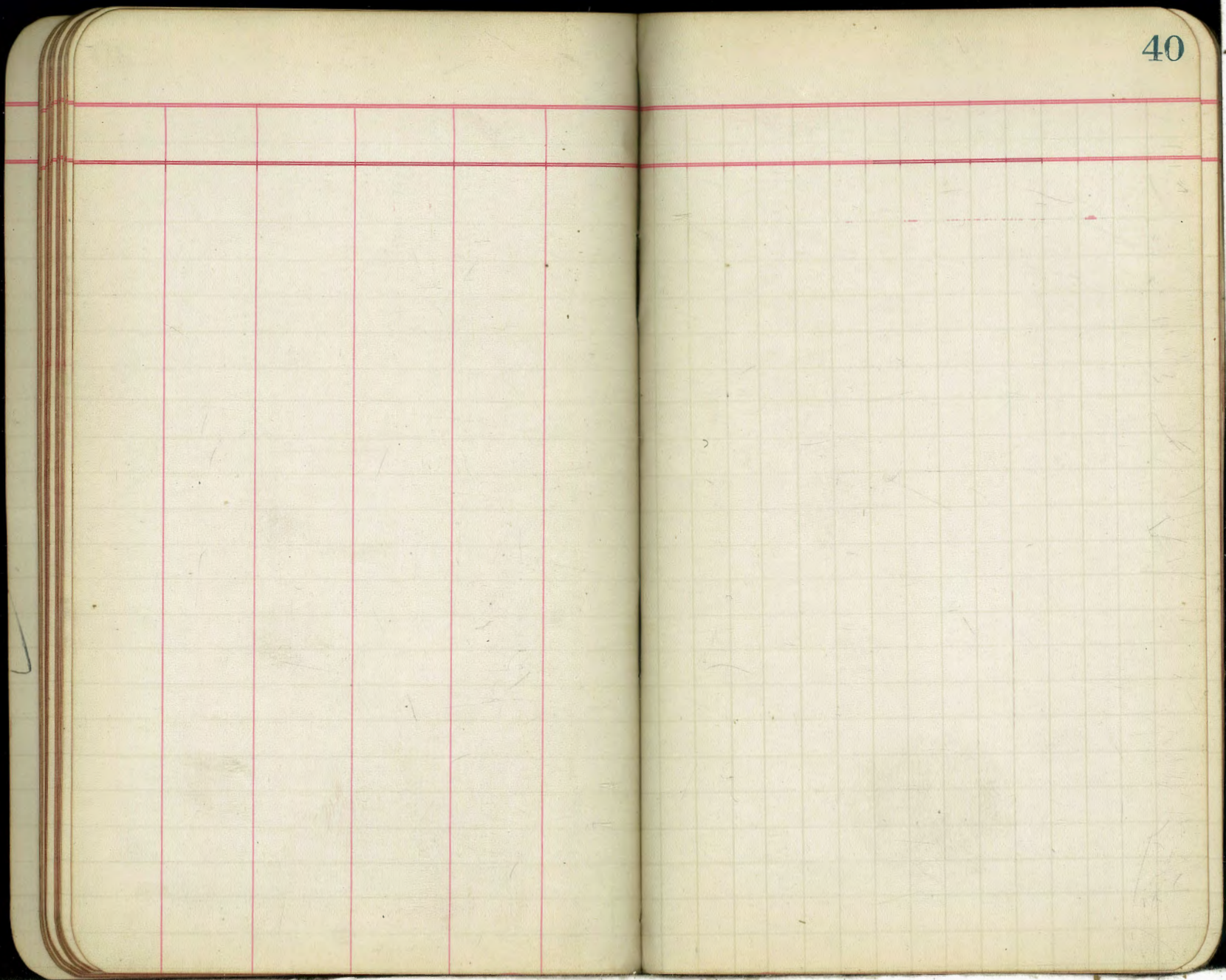


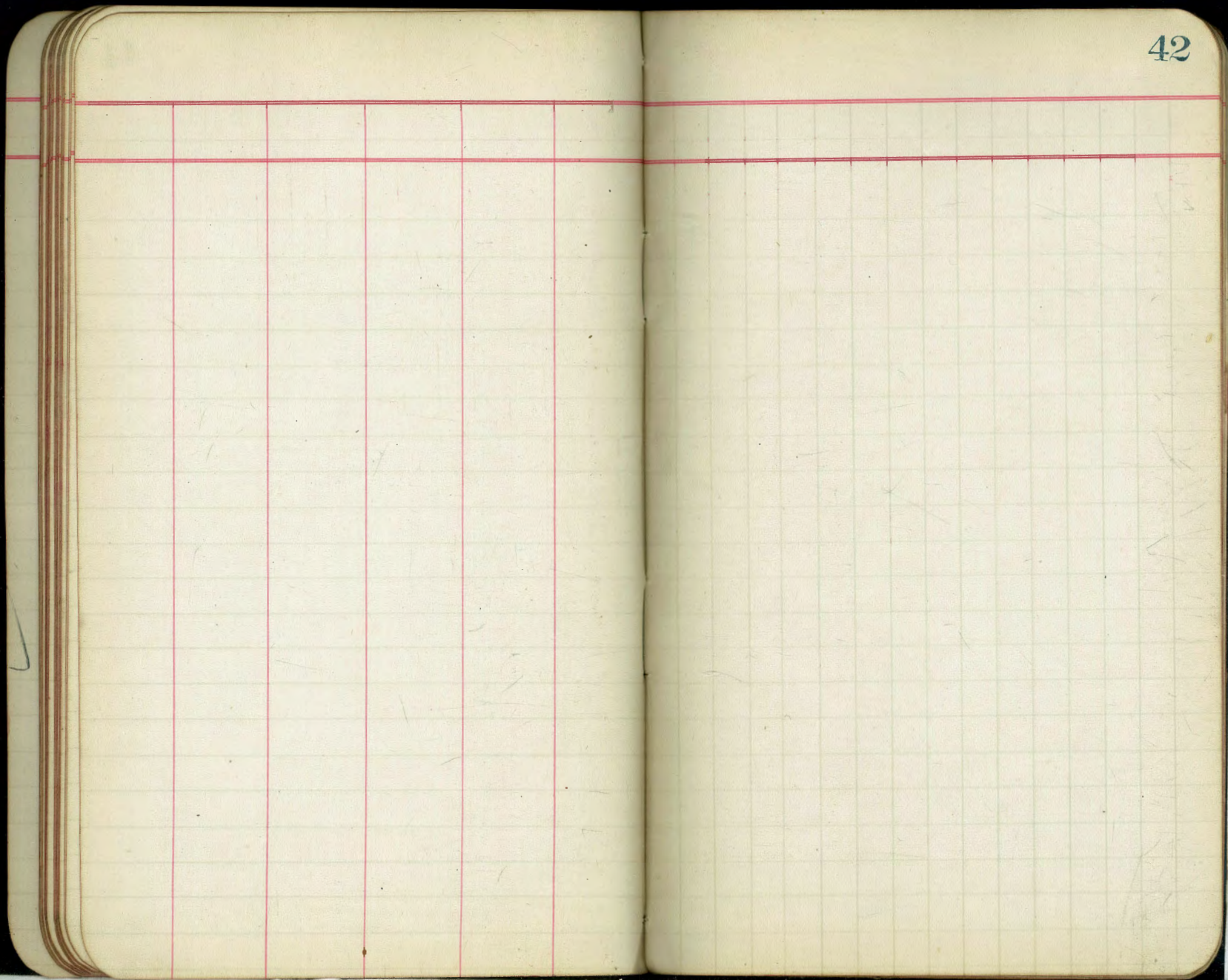


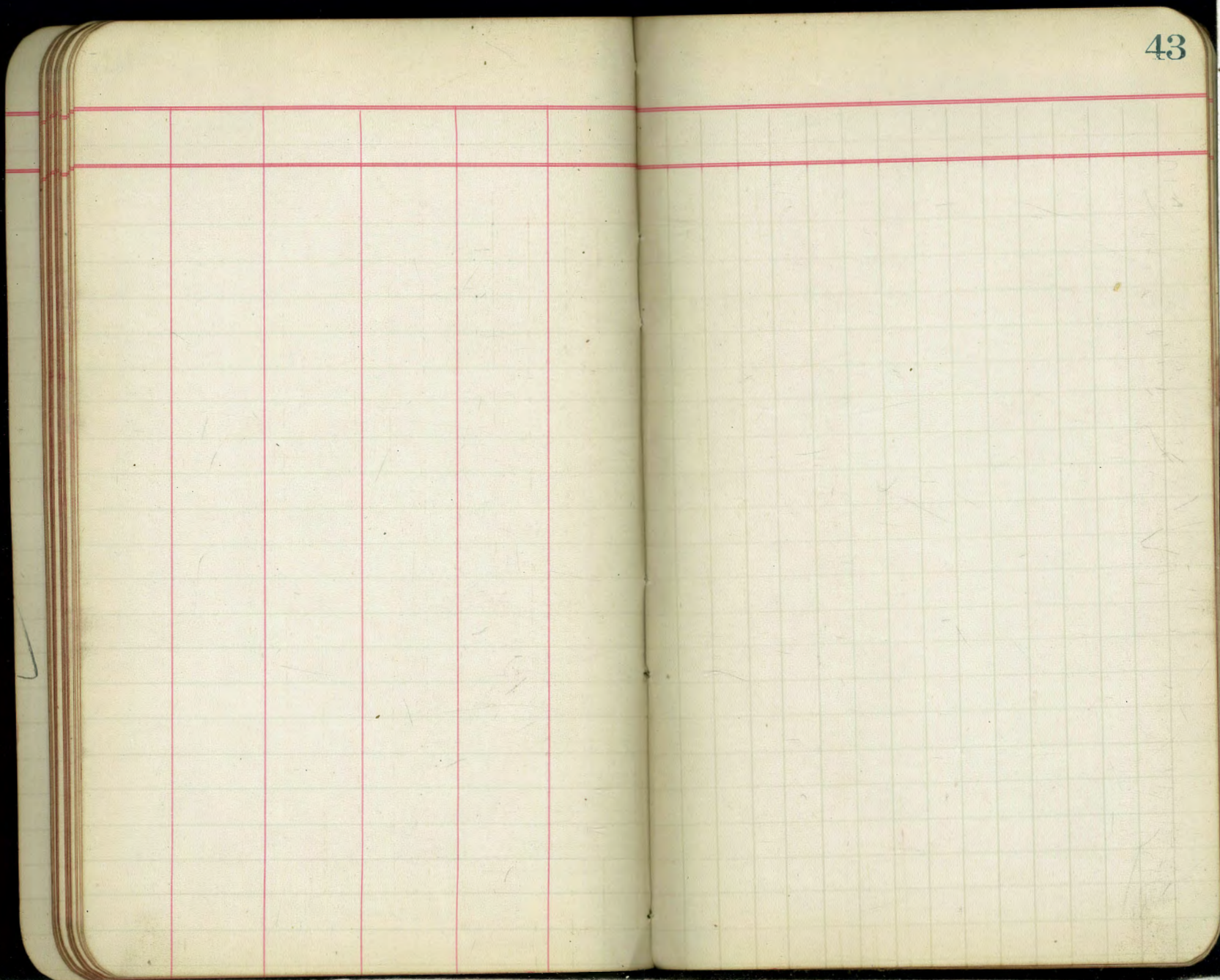
The image shows an open notebook with two pages. The left page is ruled with a grid of 6 columns and 18 rows. The right page is ruled with a grid of 18 columns and 18 rows. The number 32 is printed in the top right corner of the right page. The pages are cream-colored and show signs of use, including some faint smudges and a small blue mark on the left edge of the left page.

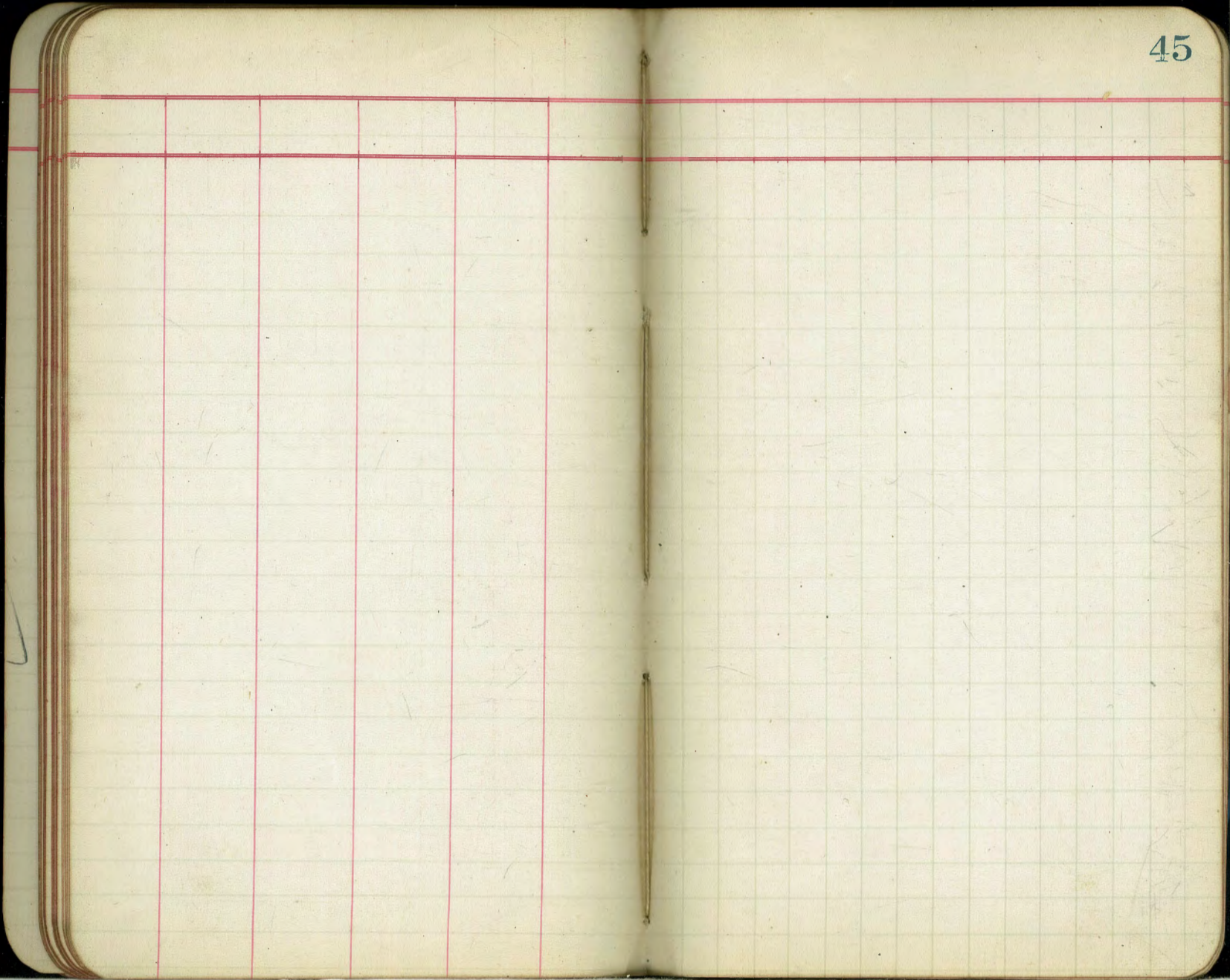


The image shows an open notebook with two pages. The left page is ruled with a grid and has a vertical margin line on the left. The right page is ruled with a grid and has the number 36 in the top right corner. The pages are cream-colored and show signs of use, including some faint smudges and a small blue mark on the left edge of the left page.









103 Pieces 8th Ink
 27 3 8 + 4
 on California taken
 from 6th street Feb 18th 1868

1449
 10952
 15-K

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	84
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	83
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	82
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	81
4	99.76	6.98	99.73	7.41	99.69	7.58	99.66	8.28	80
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	79
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	78
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	77
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	76
9	98.77	15.64	98.70	16.07	98.63	15.50	98.56	16.83	75
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	74
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.38	73
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	72
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	71
14	97.03	24.19	96.92	24.62	96.81	23.94	96.70	25.46	70
15	96.59	25.88	96.48	25.30	96.36	25.72	96.25	27.14	69
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	68
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	67
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	66
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	65
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	64
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	63
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	62
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	61
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	60
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	59
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	58
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	57
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	56
29	87.45	48.48	87.25	48.86	87.04	49.24	86.82	49.62	55
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	54
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	53
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	52
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	51
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	50
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	49
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	48
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	47
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	46
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	45
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	44
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	43
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	42
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	41
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	40
45	70.71	70.71							39
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		