

Math Number Patterns

Addition Table

ones

$1+1=2$
 $1+2=3$
 $1+3=4$
 $1+4=5$
 $1+5=6$
 $1+6=7$
 $1+7=8$
 $1+8=9$
 $1+9=10$
 $1+10=11$
 $1+11=12$
 $1+12=13$

twos

$2+1=3$
 $2+2=4$
 $2+3=5$
 $2+4=6$
 $2+5=7$
 $2+6=8$
 $2+7=9$
 $2+8=10$
 $2+9=11$
 $2+10=12$
 $2+11=13$
 $2+12=14$

threes

$3+1=4$
 $3+2=5$
 $3+3=6$
 $3+4=7$
 $3+5=8$
 $3+6=9$
 $3+7=10$
 $3+8=11$
 $3+9=12$
 $3+10=13$
 $3+11=14$
 $3+12=15$

sevens

$7+1=8$
 $7+2=9$
 $7+3=10$
 $7+4=11$
 $7+5=12$
 $7+6=13$
 $7+7=14$
 $7+8=15$
 $7+9=16$
 $7+10=17$
 $7+11=18$
 $7+12=19$

eights

$8+1=9$
 $8+2=10$
 $8+3=11$
 $8+4=12$
 $8+5=13$
 $8+6=14$
 $8+7=15$
 $8+8=16$
 $8+9=17$
 $8+10=18$
 $8+11=19$
 $8+12=20$

nines

$9+1=10$
 $9+2=11$
 $9+3=12$
 $9+4=13$
 $9+5=14$
 $9+6=15$
 $9+7=16$
 $9+8=17$
 $9+9=18$
 $9+10=19$
 $9+11=20$
 $9+12=21$

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

fours

$4+1=5$
 $4+2=6$
 $4+3=7$
 $4+4=8$
 $4+5=9$
 $4+6=10$
 $4+7=11$
 $4+8=12$
 $4+9=13$
 $4+10=14$
 $4+11=15$
 $4+12=16$

fives

$5+1=6$
 $5+2=7$
 $5+3=8$
 $5+4=9$
 $5+5=10$
 $5+6=11$
 $5+7=12$
 $5+8=13$
 $5+9=14$
 $5+10=15$
 $5+11=16$
 $5+12=17$

sixes

$6+1=7$
 $6+2=8$
 $6+3=9$
 $6+4=10$
 $6+5=11$
 $6+6=12$
 $6+7=13$
 $6+8=14$
 $6+9=15$
 $6+10=16$
 $6+11=17$
 $6+12=18$

tens

$10+1=11$
 $10+2=12$
 $10+3=13$
 $10+4=14$
 $10+5=15$
 $10+6=16$
 $10+7=17$
 $10+8=18$
 $10+9=19$
 $10+10=20$
 $10+11=21$
 $10+12=22$

elevens

$11+1=12$
 $11+2=13$
 $11+3=14$
 $11+4=15$
 $11+5=16$
 $11+6=17$
 $11+7=18$
 $11+8=19$
 $11+9=20$
 $11+10=21$
 $11+11=22$
 $11+12=23$

twelves

$12+1=13$
 $12+2=14$
 $12+3=15$
 $12+4=16$
 $12+5=17$
 $12+6=18$
 $12+7=19$
 $12+8=20$
 $12+9=21$
 $12+10=22$
 $12+11=23$
 $12+12=24$

Multiplication Square

1

$1 \times 1 = 1$
 $1 \times 2 = 2$
 $1 \times 3 = 3$
 $1 \times 4 = 4$
 $1 \times 5 = 5$
 $1 \times 6 = 6$
 $1 \times 7 = 7$
 $1 \times 8 = 8$
 $1 \times 9 = 9$
 $1 \times 10 = 10$
 $1 \times 11 = 11$
 $1 \times 12 = 12$

2

$2 \times 1 = 2$
 $2 \times 2 = 4$
 $2 \times 3 = 6$
 $2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$
 $2 \times 10 = 20$
 $2 \times 11 = 22$
 $2 \times 12 = 24$

3

$3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$
 $3 \times 10 = 30$
 $3 \times 11 = 33$
 $3 \times 12 = 36$

4

$4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$
 $4 \times 10 = 40$
 $4 \times 11 = 44$
 $4 \times 12 = 48$

5

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$
 $5 \times 10 = 50$
 $5 \times 11 = 55$
 $5 \times 12 = 60$

6

$6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$
 $6 \times 10 = 60$
 $6 \times 11 = 66$
 $6 \times 12 = 72$

7

$7 \times 1 = 7$
 $7 \times 2 = 14$
 $7 \times 3 = 21$
 $7 \times 4 = 28$
 $7 \times 5 = 35$
 $7 \times 6 = 42$
 $7 \times 7 = 49$
 $7 \times 8 = 56$
 $7 \times 9 = 63$
 $7 \times 10 = 70$
 $7 \times 11 = 77$
 $7 \times 12 = 84$

8

$8 \times 1 = 8$
 $8 \times 2 = 16$
 $8 \times 3 = 24$
 $8 \times 4 = 32$
 $8 \times 5 = 40$
 $8 \times 6 = 48$
 $8 \times 7 = 56$
 $8 \times 8 = 64$
 $8 \times 9 = 72$
 $8 \times 10 = 80$
 $8 \times 11 = 88$
 $8 \times 12 = 96$

9

$9 \times 1 = 9$
 $9 \times 2 = 18$
 $9 \times 3 = 27$
 $9 \times 4 = 36$
 $9 \times 5 = 45$
 $9 \times 6 = 54$
 $9 \times 7 = 63$
 $9 \times 8 = 72$
 $9 \times 9 = 81$
 $9 \times 10 = 90$
 $9 \times 11 = 99$
 $9 \times 12 = 108$

10

$10 \times 1 = 10$
 $10 \times 2 = 20$
 $10 \times 3 = 30$
 $10 \times 4 = 40$
 $10 \times 5 = 50$
 $10 \times 6 = 60$
 $10 \times 7 = 70$
 $10 \times 8 = 80$
 $10 \times 9 = 90$
 $10 \times 10 = 100$
 $10 \times 11 = 110$
 $10 \times 12 = 120$

11

$11 \times 1 = 11$
 $11 \times 2 = 22$
 $11 \times 3 = 33$
 $11 \times 4 = 44$
 $11 \times 5 = 55$
 $11 \times 6 = 66$
 $11 \times 7 = 77$
 $11 \times 8 = 88$
 $11 \times 9 = 99$
 $11 \times 10 = 110$
 $11 \times 11 = 121$
 $11 \times 12 = 132$

12

$12 \times 1 = 12$
 $12 \times 2 = 24$
 $12 \times 3 = 36$
 $12 \times 4 = 48$
 $12 \times 5 = 60$
 $12 \times 6 = 72$
 $12 \times 7 = 84$
 $12 \times 8 = 96$
 $12 \times 9 = 108$
 $12 \times 10 = 120$
 $12 \times 11 = 132$
 $12 \times 12 = 144$

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

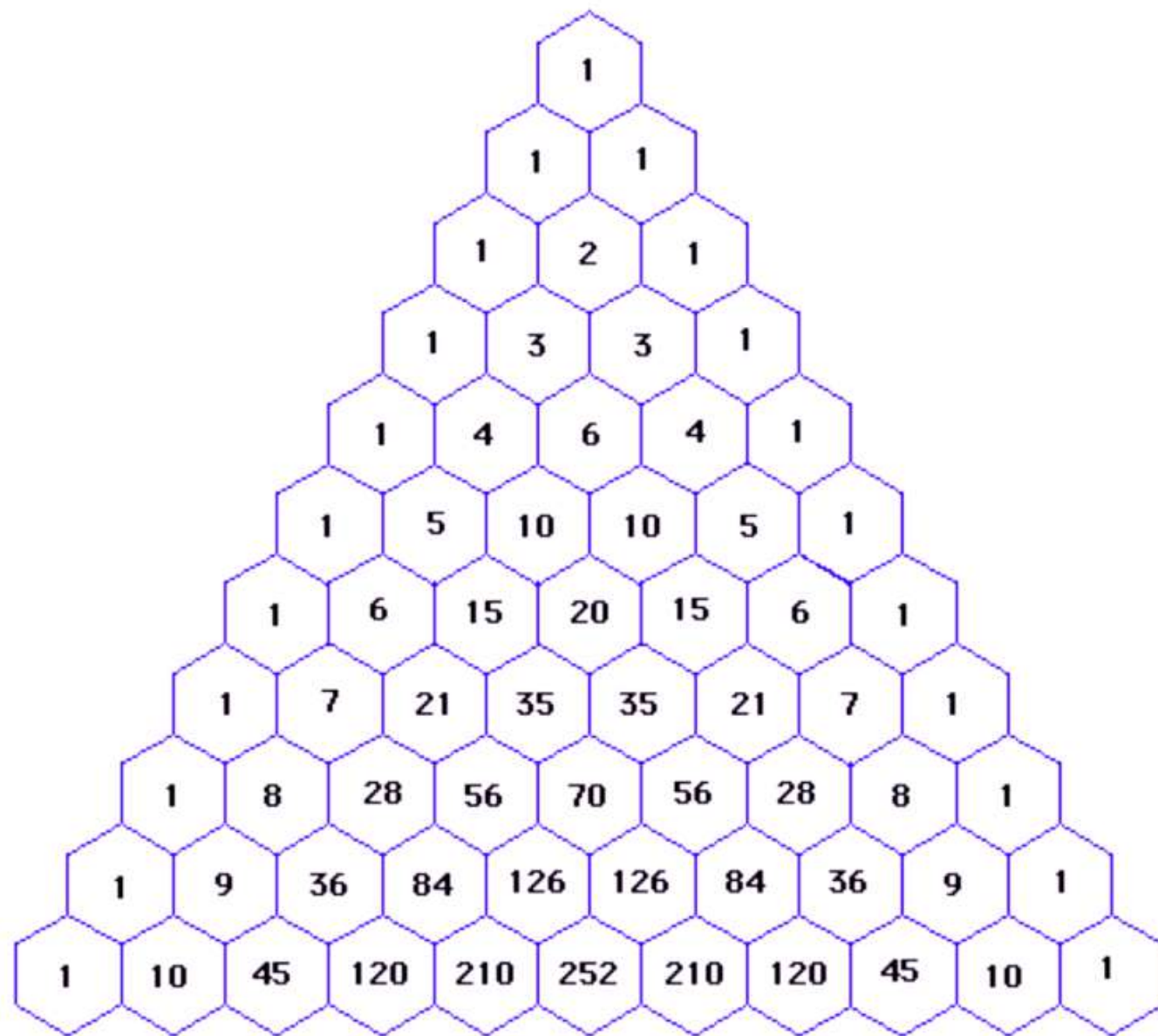
0 9 19 29 39 49 59 69 79 89 99

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

0-Zero to Ninety-Nine-99

Numbers 1-100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Describe as many patterns as you can from this image

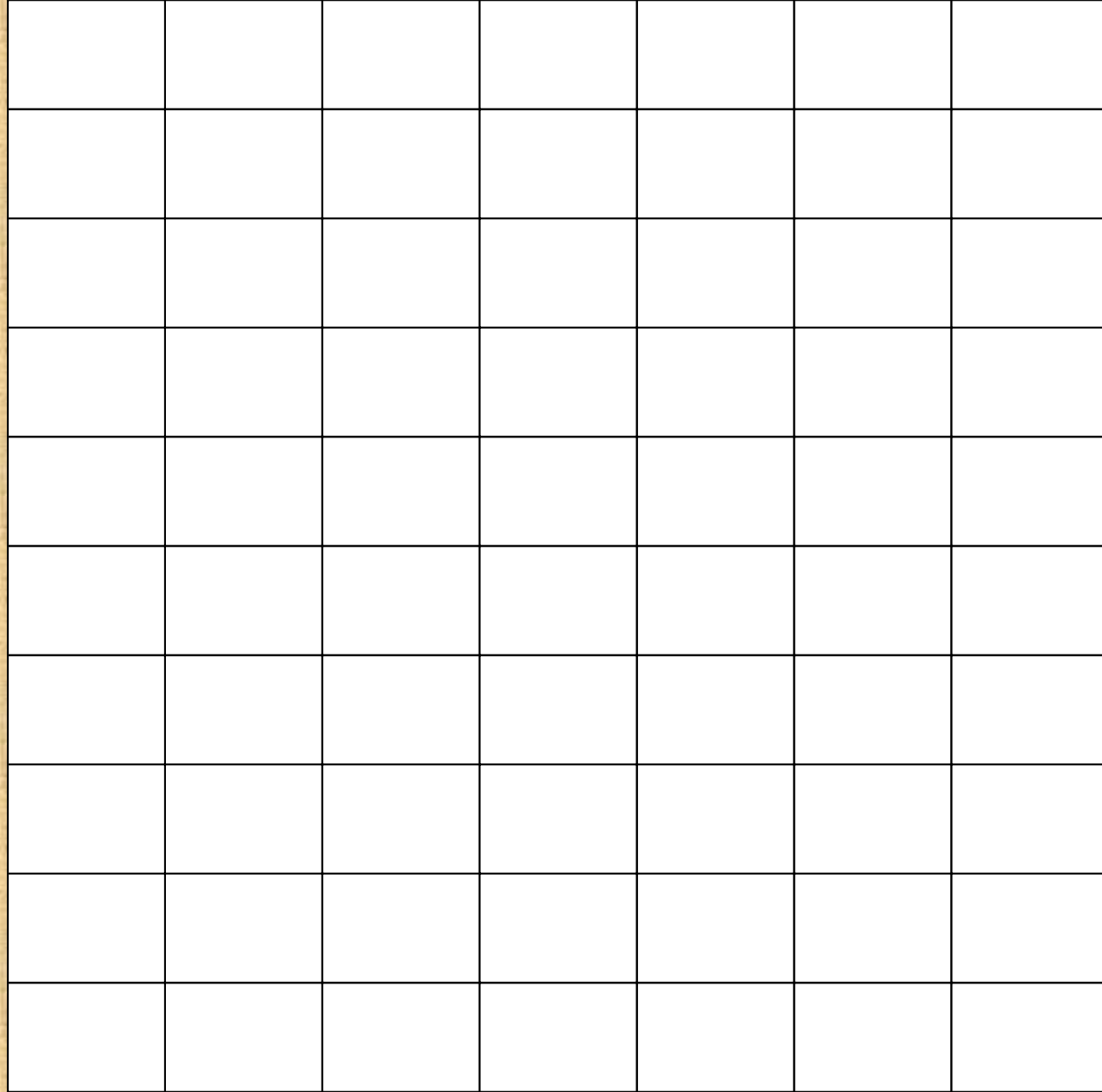
January

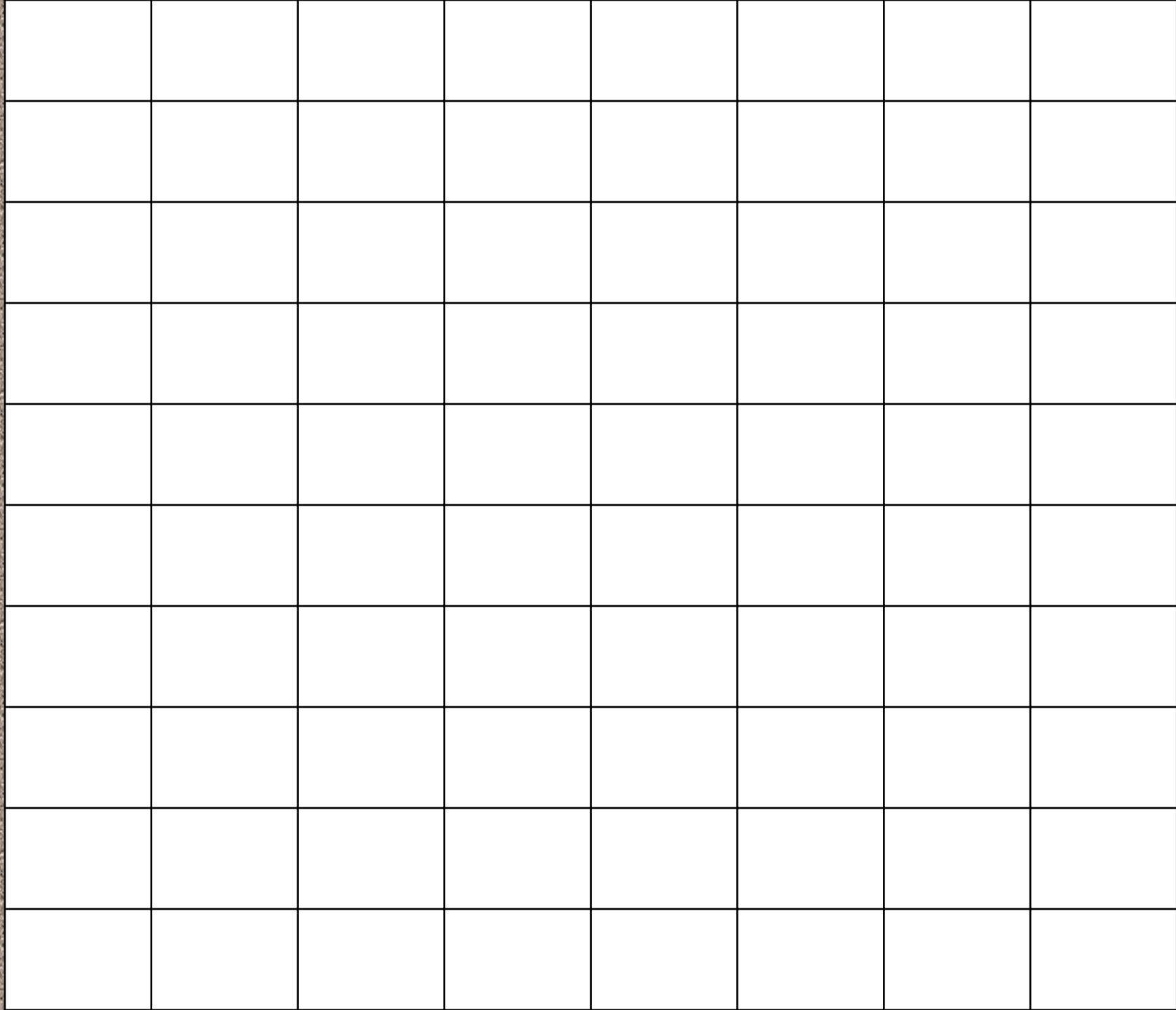
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

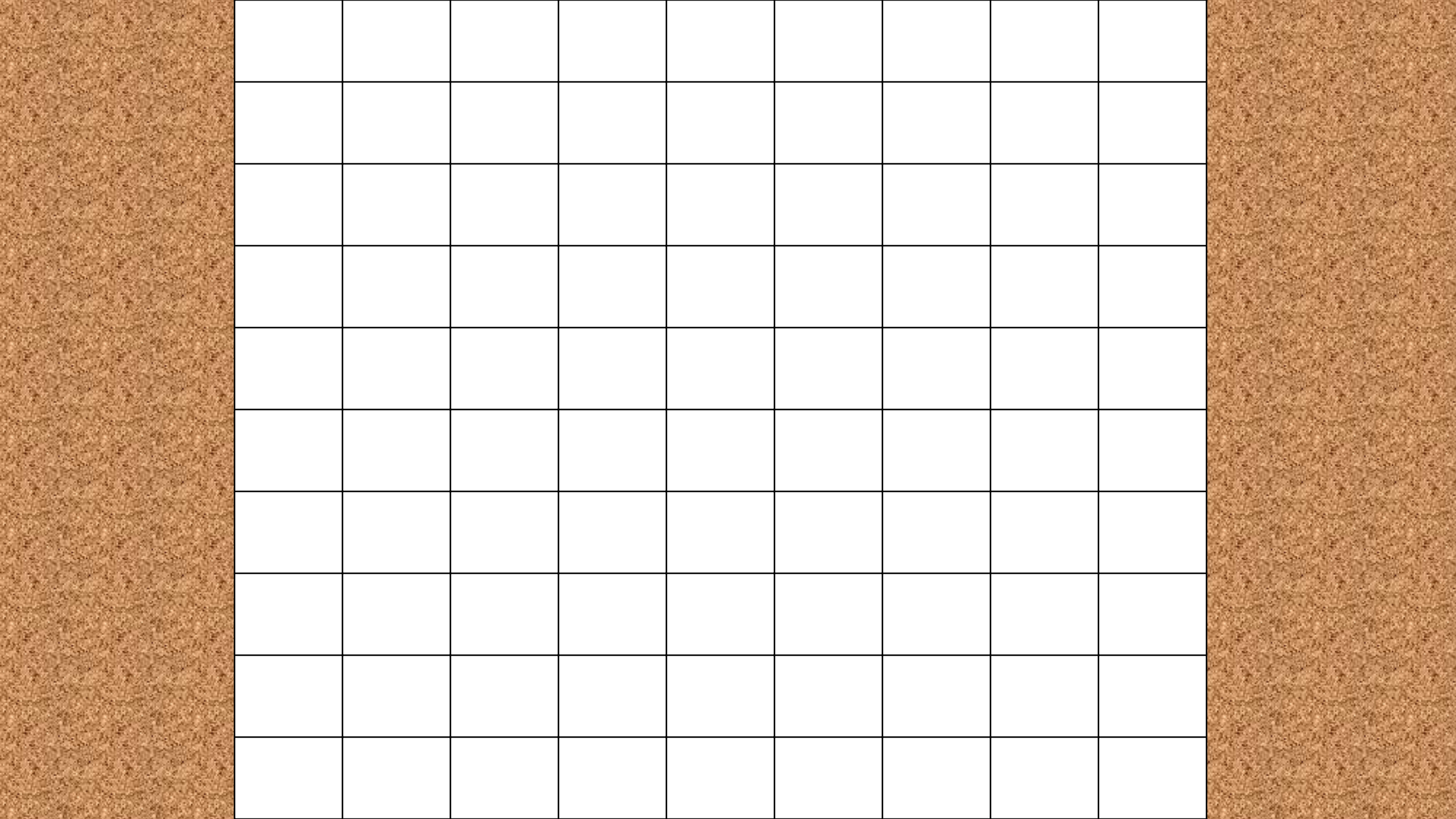
[illegible]

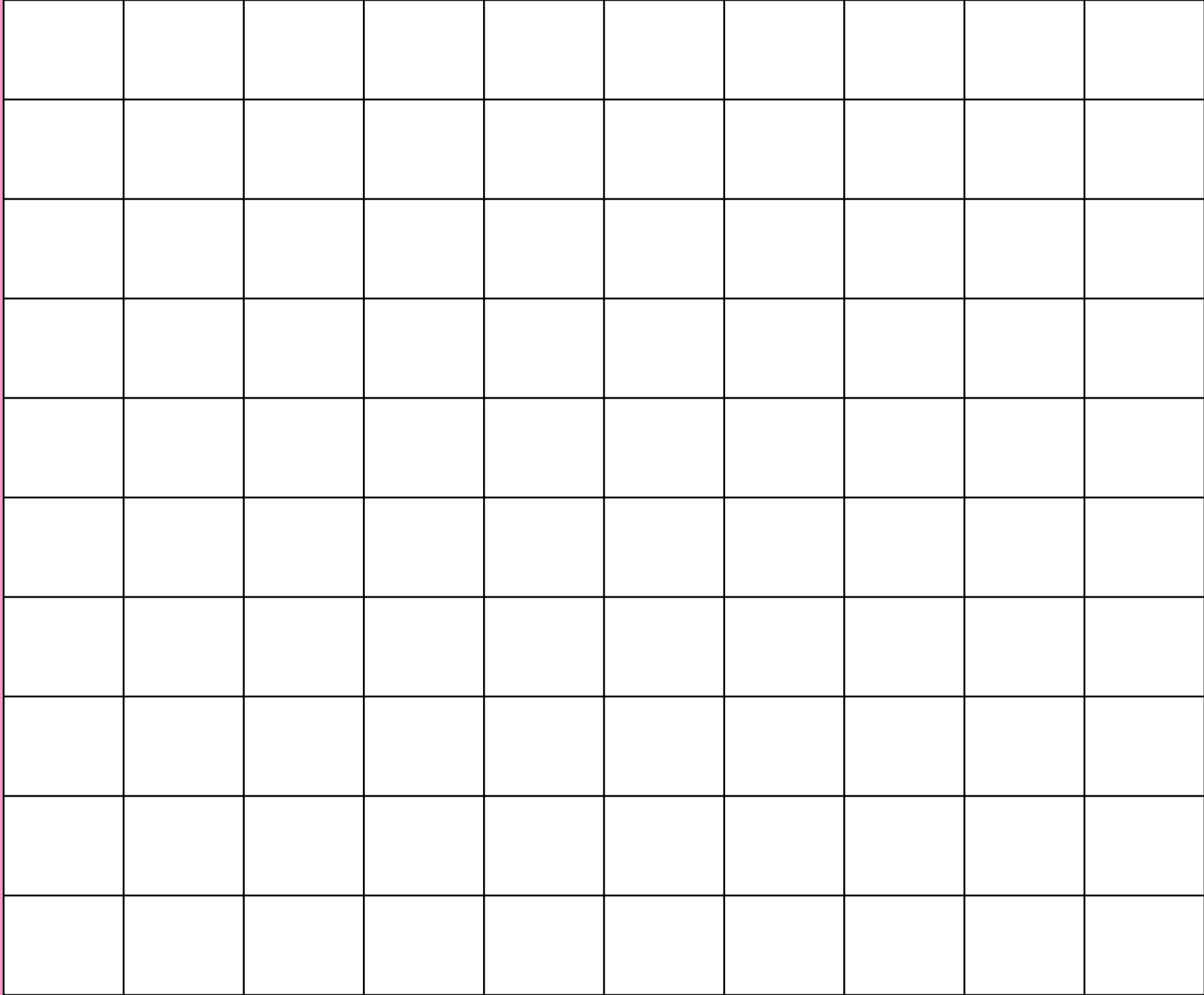
[illegible]

[illegible]

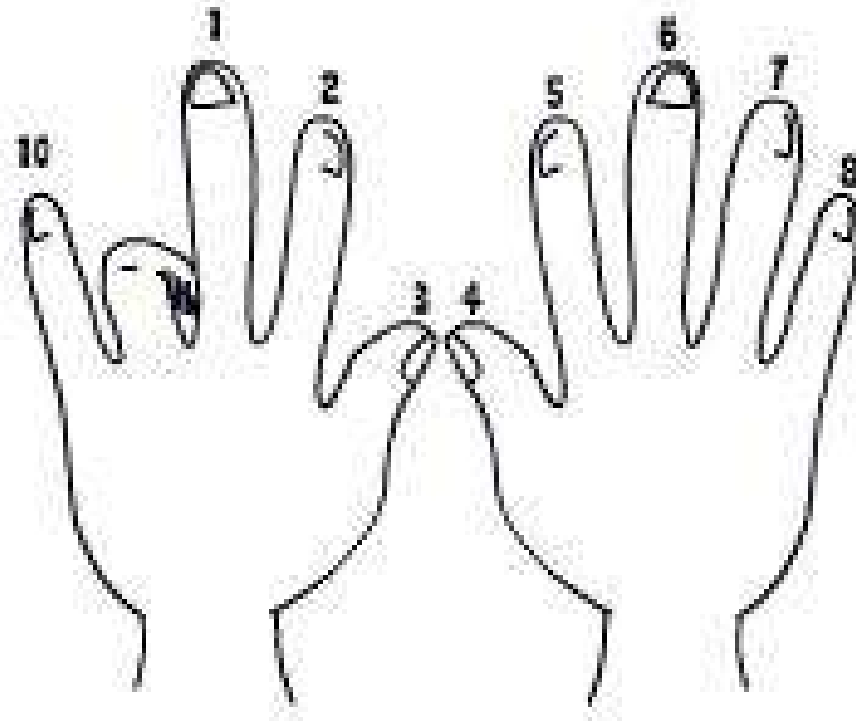








$$2 \times 9 = 18$$



*Strange
patterns
with 9s*

- Each finger to the left of the curled finger represents 10.
 - Say 10,
- Each finger to the right of the curled finger represents one.
 - Count 1, 2, 3, 4, 5, 6, 7, 8 . (Or 11, 12, 13, 14, 15, 16, 17, **18**)
- **$2 \times 9 = 18$**



The 9's Trick

When you multiply a number by 9:

1. Point to the number that is NOT 9.

2. Subtract one from that number. Write down the difference. This is the first digit of your answer.

3. Think: "What can I add to this number to make 9?" This number is the second digit of your answer.

$$9 \times 5 = \underline{\quad}$$



$$9 \times 5 = 4 \underline{\quad}$$

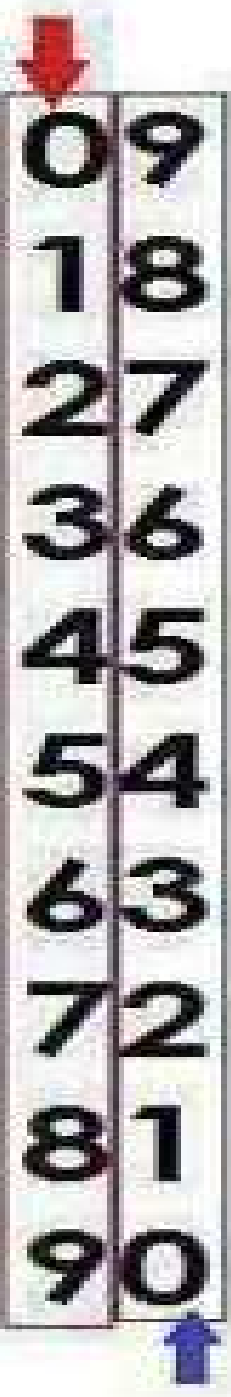


$$9 \times 5 = 45$$



The digits in the product add up to 9!

Strange
patterns
with 9s



9	x	1	=	09
9	x	2	=	18
9	x	3	=	27
9	x	4	=	36
9	x	5	=	45
9	x	6	=	54
9	x	7	=	63
9	x	8	=	72
9	x	9	=	81
9	x	10	=	90

Strange
patterns
with 9s