

RECTANGULAR LATTICE

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

Figure 1: Grid filled with fundamental "blocks".

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

Figure 2: Color in blocks so that the area covered includes exactly one box with each number.

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

Figure 3: Duplicate blocks across grid, and fill with color

SKUEW LATTICE

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

Figure 4: Color in blocks so that the area covered includes exactly one box with each number.

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

Figure 5: Duplicate blocks across grid, and fill with color

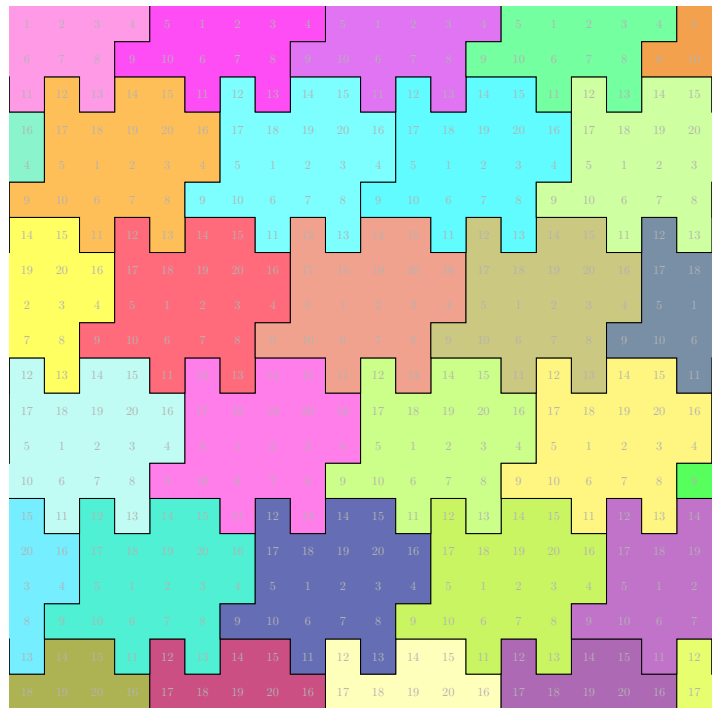


Figure 6: Finished skewed tiling

