

1967 Young Mother and Child



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Instructions

Thank you for choosing Golden Kite products!
We hope you will have lots of fun with this cross-stitch pattern!

Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

Stitches

Each length of DMC tread consists of six strands.

Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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Young Mother and Child

Stitch Count	
Horizontal:	450
Vertical:	333

Recommended Fabric Color
Antique White.

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	82	32,14	61	23,78	72	28,12	53	20,81	64	25	47	18,5
Including Margins:	98	39	77	30	88	35	69	27	80	32	63	25
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	114	44,99	85	33,29	95	37,49	71	27,74	47	18,74	35	13,87
Including Margins:	130	51	101	40	111	44	87	34	63	25	51	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17,99	34	13,31	44	17,3	32	12,8	42	16,66	31	12,33
Including Margins:	61	24	50	20	60	24	48	19	58	23	47	19
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	41	16,07	30	11,89	38	14,99	28	11,09	35	14,06	26	10,4
Including Margins:	57	23	46	18	54	21	44	18	51	21	42	17

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
■	310	Black
●	370	Mustard-MD
∩	371	Mustard
..	372	Mustard-LT
☉	420	Hazelnut Brown-DK
—	422	Hazelnut Brown-LT
▨	433	Brown-MD
⌘	434	Brown-LT
⌘	435	Brown-VY LT
∩	436	Tan
::	437	Tan-LT
)	445	Lemon-LT
◇	472	Avocado Green-UL LT
●	500	Blue Green-VY DK
☾	535	Ash Gray-VY LT
⌘	610	Drab Brown-DK
∩	611	Drab Brown
9	613	Drab Brown-VY LT
⌘	632	Desert Sand-UL VY DK
∩	640	Beige Gray-VY DK
⌘	642	Beige Gray-DK
5	644	Beige Gray-MD
▲	645	Beaver Gray-VY DK
±	676	Old Gold-LT
l	677	Old Gold-VY LT
⌘	680	Old Gold-DK
∩	712	Cream
□	727	Topaz-VY LT
H	729	Old Gold-MD
◎	733	Olive Green-MD
2	734	Olive Green-LT
⌘	738	Tan-VY LT
♡	739	Tan-UL VY LT
(	745	Yellow-LT Pale
«	746	Off White
<	772	Yellow Green-VY LT
▼	801	Coffee Brown-DK
▷	822	Beige Gray-LT
⌘	829	Golden Olive-VY DK
▲	830	Golden Olive-DK
//	831	Golden Olive-MD
×	832	Golden Olive
#	833	Golden Olive-LT
☆	834	Golden Olive-VY LT
➔	838	Beige Brown-VY DK
⌘	839	Beige Brown-DK
×	840	Beige Brown-MD
☾	844	Beaver Brown-UL DK
☾	898	Coffee Brown-VY DK
●	934	Black Avocado Green
●	938	Coffee Brown-UL DK
▶	975	Golden Brown-DK
⌘	3011	Khaki Green-DK

➤	3012	Khaki Green-MD
●	3021	Brown Gray-VY DK
⦿	3022	Brown Gray-MD
⦿	3032	Mocha Brown-MD
⦿	3045	Yellow Beige-DK
／	3046	Yellow Beige-MD
•	3047	Yellow Beige-LT
⦿	3078	Golden Yellow-VY LT
■	3371	Black Brown
✓	3782	Mocha Brown-LT
♦	3787	Brown Gray-DK
✕	3799	Pewter Gray-VY DK
○	3822	Straw-LT
∞	3823	Yellow-UL Pale
√	3827	Golden Brown-Pale
⦿	3828	Hazelnut Brown
✱	3829	Old Gold-VY DK
↓	3857	Rosewood-DK
⦿	3862	Mocha Beige-DK
1	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
u	1	White 1	3865	Winter White
⦿	300	Mahogany-VY DK	898	Coffee Brown-VY DK
●	310	Black	934	Black Avocado Green
\$	356	Terra Cotta-MD	3045	Yellow Beige-DK
•	356	Terra Cotta-MD	3828	Hazelnut Brown
⊕	370	Mustard-MD	435	Brown-VY LT
◀	370	Mustard-MD	611	Drab Brown
⦿	370	Mustard-MD	3828	Hazelnut Brown
z	370	Mustard-MD	3862	Mocha Beige-DK
⦿	371	Mustard	612	Drab Brown-LT
⦿	371	Mustard	640	Beige Gray-VY DK
✕	371	Mustard	3364	Pine Green
⦿	372	Mustard-LT	612	Drab Brown-LT
⦿	372	Mustard-LT	642	Beige Gray-DK
↘	407	Desert Sand-DK	3863	Mocha Beige-MD
⦿	413	Pewter Gray-DK	3021	Brown Gray-VY DK
／	420	Hazelnut Brown-DK	435	Brown-VY LT
✱	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
✱	420	Hazelnut Brown-DK	830	Golden Olive-DK
⦿	420	Hazelnut Brown-DK	832	Golden Olive
H	420	Hazelnut Brown-DK	3829	Old Gold-VY DK
⦿	420	Hazelnut Brown-DK	3862	Mocha Beige-DK
L	420	Hazelnut Brown-DK	3863	Mocha Beige-MD
⦿	422	Hazelnut Brown-LT	3013	Khaki Green-LT
⦿	422	Hazelnut Brown-LT	3046	Yellow Beige-MD
▲	433	Brown-MD	435	Brown-VY LT
T	435	Brown-VY LT	436	Tan
⦿	435	Brown-VY LT	729	Old Gold-MD
★	435	Brown-VY LT	975	Golden Brown-DK
⦿	435	Brown-VY LT	3772	Desert Sand-VY DK

☐	435	Brown-VY LT	3828	Hazelnut Brown
◀	435	Brown-VY LT	3862	Mocha Beige-DK
↑	436	Tan	834	Golden Olive-VY LT
=	436	Tan	977	Golden Brown-LT
	437	Tan-LT	612	Drab Brown-LT
≡	437	Tan-LT	3856	Mahogany-UL VY LT
0	445	Lemon-LT	472	Avocado Green-UL LT
0	472	Avocado Green-UL LT	738	Tan-VY LT
✿	520	Fern Green-DK	3021	Brown Gray-VY DK
†	520	Fern Green-DK	3799	Pewter Gray-VY DK
♠	610	Drab Brown-DK	3021	Brown Gray-VY DK
✱	610	Drab Brown-DK	3362	Pine Green-DK
✱	610	Drab Brown-DK	3781	Mocha Brown-DK
✱	610	Drab Brown-DK	3790	Beige Gray-UL DK
♣	611	Drab Brown	3787	Brown Gray-DK
◇	611	Drab Brown	3862	Mocha Beige-DK
×	612	Drab Brown-LT	3013	Khaki Green-LT
^	612	Drab Brown-LT	3032	Mocha Brown-MD
∇	612	Drab Brown-LT	3053	Green Gray
▣	612	Drab Brown-LT	3772	Desert Sand-VY DK
▣	632	Desert Sand-UL VY DK	830	Golden Olive-DK
0	640	Beige Gray-VY DK	3052	Green Gray-MD
=	645	Beaver Gray-VY DK	839	Beige Brown-DK
e	676	Old Gold-LT	834	Golden Olive-VY LT
±	676	Old Gold-LT	3822	Straw-LT
⇒	676	Old Gold-LT	3855	Autumn Gold-LT
:	677	Old Gold-VY LT	738	Tan-VY LT
n	712	Cream	746	Off White
!	732	Olive Green	733	Olive Green-MD
+	738	Tan-VY LT	3013	Khaki Green-LT
↔	739	Tan-UL VY LT	834	Golden Olive-VY LT
L	745	Yellow-LT Pale	3046	Yellow Beige-MD
o	746	Off White	772	Yellow Green-VY LT
o	746	Off White	3078	Golden Yellow-VY LT
∞	782	Topaz-DK	783	Topaz-MD
☼	829	Golden Olive-VY DK	898	Coffee Brown-VY DK
0	834	Golden Olive-VY LT	977	Golden Brown-LT
o	834	Golden Olive-VY LT	3045	Yellow Beige-DK
0	834	Golden Olive-VY LT	3822	Straw-LT
7	834	Golden Olive-VY LT	3827	Golden Brown-Pale
†	834	Golden Olive-VY LT	3828	Hazelnut Brown
☼	838	Beige Brown-VY DK	3781	Mocha Brown-DK
▲	839	Beige Brown-DK	3021	Brown Gray-VY DK
♣	844	Beaver Brown-UL DK	3031	Mocha Brown-VY DK
♣	844	Beaver Brown-UL DK	3362	Pine Green-DK
o	869	Hazelnut Brown-VY DK	975	Golden Brown-DK
■	869	Hazelnut Brown-VY DK	3781	Mocha Brown-DK
◆	902	Garnet-VY DK	938	Coffee Brown-UL DK
♥	934	Black Avocado Green	3031	Mocha Brown-VY DK
☛	934	Black Avocado Green	3799	Pewter Gray-VY DK
↓	935	Avocado Green-DK	938	Coffee Brown-UL DK
↑	935	Avocado Green-DK	3031	Mocha Brown-VY DK
←	936	Avocado Green-VY DK	938	Coffee Brown-UL DK
✱	938	Coffee Brown-UL DK	3799	Pewter Gray-VY DK
♣	938	Coffee Brown-UL DK	3802	Antique Mauve-VY DK
· ·	977	Golden Brown-LT	3821	Straw
3	977	Golden Brown-LT	3822	Straw-LT
·	977	Golden Brown-LT	3827	Golden Brown-Pale
田	977	Golden Brown-LT	3828	Hazelnut Brown

●	3011	Khaki Green-DK	3781	Mocha Brown-DK
⚙	3011	Khaki Green-DK	3787	Brown Gray-DK
4	3013	Khaki Green-LT	3047	Yellow Beige-LT
■	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
●	3021	Brown Gray-VY DK	3051	Green Gray-DK
⊕	3021	Brown Gray-VY DK	3362	Pine Green-DK
■	3021	Brown Gray-VY DK	3787	Brown Gray-DK
■	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
◀	3021	Brown Gray-VY DK	3860	Cocoa
+	3051	Green Gray-DK	3781	Mocha Brown-DK
^	3078	Golden Yellow-VY LT	3823	Yellow-UL Pale
*	3362	Pine Green-DK	3787	Brown Gray-DK
⊕	3371	Black Brown	3799	Pewter Gray-VY DK
●	3787	Brown Gray-DK	3799	Pewter Gray-VY DK
6	3822	Straw-LT	3827	Golden Brown-Pale
⊕	3828	Hazelnut Brown	3830	Terra Cotta-MD

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
1	White 1	5	1	5	1	4	1
300	Mahogany-VY DK	9	3	9	3	8	3
310	Black	145	57	138	54	124	48
356	Terra Cotta-MD	29	11	27	10	25	9
370	Mustard-MD	244	96	232	91	209	82
371	Mustard	477	187	454	178	409	161
372	Mustard-LT	276	108	262	103	236	92
407	Desert Sand-DK	2	1	2	1	2	1
413	Pewter Gray-DK	163	64	155	61	139	54
420	Hazelnut Brown-DK	215	84	205	80	184	72
422	Hazelnut Brown-LT	180	70	172	67	154	60
433	Brown-MD	57	22	55	21	49	19
434	Brown-LT	24	9	23	9	20	7
435	Brown-VY LT	361	142	344	135	310	122
436	Tan	163	64	155	61	139	54
437	Tan-LT	42	16	40	15	36	14
445	Lemon-LT	51	20	48	18	44	17
472	Avocado Green-UL LT	193	75	184	72	166	65
500	Blue Green-VY DK	1434	564	1366	537	1230	484
520	Fern Green-DK	237	93	226	88	203	79
535	Ash Gray-VY LT	65	25	62	24	56	22
610	Drab Brown-DK	460	181	438	172	394	155
611	Drab Brown	628	247	598	235	538	211
612	Drab Brown-LT	388	152	370	145	333	131
613	Drab Brown-VY LT	21	8	20	7	18	7
632	Desert Sand-UL VY DK	119	46	113	44	102	40
640	Beige Gray-VY DK	373	146	355	139	319	125
642	Beige Gray-DK	47	18	44	17	40	15
644	Beige Gray-MD	8	3	8	3	7	2
645	Beaver Gray-VY DK	144	56	137	53	123	48
676	Old Gold-LT	38	14	37	14	33	12
677	Old Gold-VY LT	310	122	295	116	266	104
680	Old Gold-DK	22	8	21	8	19	7
712	Cream	19	7	19	7	17	6
727	Topaz-VY LT	17	6	17	6	15	5
729	Old Gold-MD	142	55	135	53	122	48
732	Olive Green	8	3	7	2	7	2
733	Olive Green-MD	34	13	32	12	29	11
734	Olive Green-LT	51	20	49	19	44	17
738	Tan-VY LT	384	151	366	144	329	129
739	Tan-UL VY LT	116	45	111	43	100	39
745	Yellow-LT Pale	232	91	221	87	199	78
746	Off White	282	111	268	105	242	95
772	Yellow Green-VY LT	78	30	74	29	67	26
782	Topaz-DK	4	1	4	1	4	1
783	Topaz-MD	4	1	4	1	4	1
801	Coffee Brown-DK	50	19	48	18	43	16
822	Beige Gray-LT	12	4	11	4	10	3
829	Golden Olive-VY DK	54	21	52	20	47	18
830	Golden Olive-DK	144	56	137	53	124	48
831	Golden Olive-MD	27	10	26	10	23	9
832	Golden Olive	26	10	25	9	23	9
833	Golden Olive-LT	28	11	27	10	24	9

834	Golden Olive-VY LT	373	146	355	139	320	125
838	Beige Brown-VY DK	207	81	197	77	177	69
839	Beige Brown-DK	195	76	185	72	167	65
840	Beige Brown-MD	51	20	49	19	44	17
844	Beaver Brown-UL DK	549	216	523	205	471	185
869	Hazelnut Brown-VY DK	78	30	74	29	67	26
898	Coffee Brown-VY DK	84	33	80	31	72	28
902	Garnet-VY DK	9	3	9	3	8	3
934	Black Avocado Green	3230	1271	3076	1211	2769	1090
935	Avocado Green-DK	134	52	128	50	115	45
936	Avocado Green-VY DK	48	18	46	18	41	16
938	Coffee Brown-UL DK	1771	697	1687	664	1518	597
975	Golden Brown-DK	46	18	44	17	39	15
977	Golden Brown-LT	307	120	292	114	263	103
3011	Khaki Green-DK	387	152	368	144	331	130
3012	Khaki Green-MD	101	39	96	37	87	34
3013	Khaki Green-LT	437	172	417	164	375	147
3021	Brown Gray-VY DK	2131	838	2030	799	1827	719
3022	Brown Gray-MD	50	19	47	18	43	16
3031	Mocha Brown-VY DK	746	293	711	279	640	251
3032	Mocha Brown-MD	165	64	158	62	142	55
3045	Yellow Beige-DK	260	102	248	97	223	87
3046	Yellow Beige-MD	290	114	276	108	248	97
3047	Yellow Beige-LT	212	83	202	79	182	71
3051	Green Gray-DK	274	107	261	102	235	92
3052	Green Gray-MD	86	33	82	32	74	29
3053	Green Gray	68	26	65	25	59	23
3078	Golden Yellow-VY LT	246	96	234	92	211	83
3362	Pine Green-DK	500	196	476	187	428	168
3364	Pine Green	90	35	85	33	77	30
3371	Black Brown	7056	2777	6720	2645	6048	2381
3772	Desert Sand-VY DK	37	14	35	13	32	12
3781	Mocha Brown-DK	396	155	377	148	340	133
3782	Mocha Brown-LT	26	10	25	9	23	9
3787	Brown Gray-DK	1016	400	967	380	871	342
3790	Beige Gray-UL DK	57	22	55	21	49	19
3799	Pewter Gray-VY DK	11056	4352	10529	4145	9476	3730
3802	Antique Mauve-VY DK	18	7	17	6	15	5
3821	Straw	30	11	29	11	26	10
3822	Straw-LT	95	37	91	35	82	32
3823	Yellow-UL Pale	99	38	95	37	85	33
3827	Golden Brown-Pale	87	34	83	32	74	29
3828	Hazelnut Brown	268	105	255	100	229	90
3829	Old Gold-VY DK	16	6	16	6	14	5
3830	Terra Cotta-MD	7	2	6	2	6	2
3855	Autumn Gold-LT	5	1	5	1	4	1
3856	Mahogany-UL VY LT	3	1	3	1	2	1
3857	Rosewood-DK	6	2	5	1	5	1
3860	Cocoa	34	13	32	12	29	11
3862	Mocha Beige-DK	224	88	214	84	192	75
3863	Mocha Beige-MD	23	9	21	8	19	7
3865	Winter White	18	7	17	6	15	5

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	

1	White 1	7	2	6	2	3	1
300	Mahogany-VY DK	14	5	12	5	6	2
310	Black	223	86	186	72	93	36
356	Terra Cotta-MD	45	16	38	14	19	7
370	Mustard-MD	376	148	314	123	157	62
371	Mustard	736	290	614	242	307	121
372	Mustard-LT	425	166	354	138	177	69
407	Desert Sand-DK	4	2	3	2	2	1
413	Pewter Gray-DK	250	97	209	81	104	41
420	Hazelnut Brown-DK	331	130	276	108	138	54
422	Hazelnut Brown-LT	277	108	231	90	116	45
433	Brown-MD	88	34	74	29	37	14
434	Brown-LT	36	13	30	11	15	5
435	Brown-VY LT	558	220	465	183	233	92
436	Tan	250	97	209	81	104	41
437	Tan-LT	65	25	54	21	27	11
445	Lemon-LT	79	31	66	26	33	13
472	Avocado Green-UL LT	299	117	249	98	125	49
500	Blue Green-VY DK	2214	871	1845	726	923	363
520	Fern Green-DK	365	142	305	119	152	59
535	Ash Gray-VY LT	101	40	84	33	42	17
610	Drab Brown-DK	709	279	591	233	296	116
611	Drab Brown	968	380	807	317	404	158
612	Drab Brown-LT	599	236	500	197	250	98
613	Drab Brown-VY LT	32	13	27	11	14	5
632	Desert Sand-UL VY DK	184	72	153	60	77	30
640	Beige Gray-VY DK	574	225	479	188	239	94
642	Beige Gray-DK	72	27	60	23	30	11
644	Beige Gray-MD	13	4	11	3	5	2
645	Beaver Gray-VY DK	221	86	185	72	92	36
676	Old Gold-LT	59	22	50	18	25	9
677	Old Gold-VY LT	479	187	399	156	200	78
680	Old Gold-DK	34	13	29	11	14	5
712	Cream	31	11	26	9	13	5
727	Topaz-VY LT	27	9	23	8	11	4
729	Old Gold-MD	220	86	183	72	92	36
732	Olive Green	13	4	11	3	5	2
733	Olive Green-MD	52	20	44	17	22	8
734	Olive Green-LT	79	31	66	26	33	13
738	Tan-VY LT	592	232	494	194	247	97
739	Tan-UL VY LT	180	70	150	59	75	29
745	Yellow-LT Pale	358	140	299	117	149	59
746	Off White	436	171	363	143	182	71
772	Yellow Green-VY LT	121	47	101	39	50	20
782	Topaz-DK	7	2	6	2	3	1
783	Topaz-MD	7	2	6	2	3	1
801	Coffee Brown-DK	77	29	65	24	32	12
822	Beige Gray-LT	18	5	15	5	8	2
829	Golden Olive-VY DK	85	32	71	27	35	14
830	Golden Olive-DK	223	86	186	72	93	36
831	Golden Olive-MD	41	16	35	14	17	7
832	Golden Olive	41	16	35	14	17	7
833	Golden Olive-LT	43	16	36	14	18	7
834	Golden Olive-VY LT	576	225	480	188	240	94
838	Beige Brown-VY DK	319	124	266	104	133	52
839	Beige Brown-DK	301	117	251	98	125	49
840	Beige Brown-MD	79	31	66	26	33	13
844	Beaver Brown-UL DK	848	333	707	278	353	139
869	Hazelnut Brown-VY DK	121	47	101	39	50	20

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898	Coffee Brown-VY DK	130	50	108	42	54	21
902	Garnet-VY DK	14	5	12	5	6	2
934	Black Avocado Green	4984	1962	4154	1635	2077	818
935	Avocado Green-DK	207	81	173	68	86	34
936	Avocado Green-VY DK	74	29	62	24	31	12
938	Coffee Brown-UL DK	2732	1075	2277	896	1139	448
975	Golden Brown-DK	70	27	59	23	29	11
977	Golden Brown-LT	473	185	395	155	197	77
3011	Khaki Green-DK	596	234	497	195	248	98
3012	Khaki Green-MD	157	61	131	51	65	26
3013	Khaki Green-LT	675	265	563	221	281	110
3021	Brown Gray-VY DK	3289	1294	2741	1079	1370	539
3022	Brown Gray-MD	77	29	65	24	32	12
3031	Mocha Brown-VY DK	1152	452	960	377	480	188
3032	Mocha Brown-MD	256	99	213	83	107	41
3045	Yellow Beige-DK	401	157	335	131	167	65
3046	Yellow Beige-MD	446	175	372	146	186	73
3047	Yellow Beige-LT	328	128	273	107	137	53
3051	Green Gray-DK	423	166	353	138	176	69
3052	Green Gray-MD	133	52	111	44	56	22
3053	Green Gray	106	41	89	35	44	17
3078	Golden Yellow-VY LT	380	149	317	125	158	62
3362	Pine Green-DK	770	302	642	252	321	126
3364	Pine Green	139	54	116	45	58	23
3371	Black Brown	10886	4286	9072	3572	4536	1786
3772	Desert Sand-VY DK	58	22	48	18	24	9
3781	Mocha Brown-DK	612	239	510	200	255	100
3782	Mocha Brown-LT	41	16	35	14	17	7
3787	Brown Gray-DK	1568	616	1307	513	653	257
3790	Beige Gray-UL DK	88	34	74	29	37	14
3799	Pewter Gray-VY DK	17057	6714	14214	5595	7107	2798
3802	Antique Mauve-VY DK	27	9	23	8	11	4
3821	Straw	47	18	39	15	20	8
3822	Straw-LT	148	58	123	48	62	24
3823	Yellow-UL Pale	153	59	128	50	64	25
3827	Golden Brown-Pale	133	52	111	44	56	22
3828	Hazelnut Brown	412	162	344	135	172	68
3829	Old Gold-VY DK	25	9	21	8	11	4
3830	Terra Cotta-MD	11	4	9	3	5	2
3855	Autumn Gold-LT	7	2	6	2	3	1
3856	Mahogany-UL VY LT	4	2	3	2	2	1
3857	Rosewood-DK	9	2	8	2	4	1
3860	Cocoa	52	20	44	17	22	8
3862	Mocha Beige-DK	346	135	288	113	144	56
3863	Mocha Beige-MD	34	13	29	11	14	5
3865	Winter White	27	9	23	8	11	4

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
1	White 1	3	1	3	1	3	1
300	Mahogany-VY DK	6	2	6	2	5	2
310	Black	89	35	86	33	83	32
356	Terra Cotta-MD	18	6	17	6	17	6
370	Mustard-MD	150	59	145	57	139	55
371	Mustard	294	116	283	111	273	107

372	Mustard-LT	170	66	163	64	157	61
407	Desert Sand-DK	1	1	1	1	1	1
413	Pewter Gray-DK	100	39	96	37	93	36
420	Hazelnut Brown-DK	132	52	127	50	123	48
422	Hazelnut Brown-LT	111	43	107	42	103	40
433	Brown-MD	35	14	34	13	33	13
434	Brown-LT	14	5	14	5	13	5
435	Brown-VY LT	223	88	215	84	207	81
436	Tan	100	39	96	37	93	36
437	Tan-LT	26	10	25	10	24	9
445	Lemon-LT	32	12	30	12	29	11
472	Avocado Green-UL LT	120	47	115	45	111	43
500	Blue Green-VY DK	886	348	852	335	820	323
520	Fern Green-DK	146	57	141	55	135	53
535	Ash Gray-VY LT	40	16	39	15	37	15
610	Drab Brown-DK	284	112	273	107	263	103
611	Drab Brown	387	152	372	146	359	141
612	Drab Brown-LT	240	94	231	91	222	87
613	Drab Brown-VY LT	13	5	12	5	12	5
632	Desert Sand-UL VY DK	73	29	71	28	68	27
640	Beige Gray-VY DK	230	90	221	87	213	83
642	Beige Gray-DK	29	11	28	10	27	10
644	Beige Gray-MD	5	1	5	1	5	1
645	Beaver Gray-VY DK	89	35	85	33	82	32
676	Old Gold-LT	24	9	23	8	22	8
677	Old Gold-VY LT	192	75	184	72	177	69
680	Old Gold-DK	14	5	13	5	13	5
712	Cream	12	4	12	4	11	4
727	Topaz-VY LT	11	4	10	3	10	3
729	Old Gold-MD	88	35	84	33	81	32
732	Olive Green	5	1	5	1	5	1
733	Olive Green-MD	21	8	20	8	19	7
734	Olive Green-LT	32	12	30	12	29	11
738	Tan-VY LT	237	93	228	89	219	86
739	Tan-UL VY LT	72	28	69	27	67	26
745	Yellow-LT Pale	143	56	138	54	133	52
746	Off White	174	68	168	66	161	63
772	Yellow Green-VY LT	48	19	46	18	45	17
782	Topaz-DK	3	1	3	1	3	1
783	Topaz-MD	3	1	3	1	3	1
801	Coffee Brown-DK	31	12	30	11	29	11
822	Beige Gray-LT	7	2	7	2	7	2
829	Golden Olive-VY DK	34	13	33	12	31	12
830	Golden Olive-DK	89	35	86	33	83	32
831	Golden Olive-MD	17	6	16	6	15	6
832	Golden Olive	17	6	16	6	15	6
833	Golden Olive-LT	17	6	17	6	16	6
834	Golden Olive-VY LT	230	90	222	87	213	83
838	Beige Brown-VY DK	127	50	123	48	118	46
839	Beige Brown-DK	120	47	116	45	111	43
840	Beige Brown-MD	32	12	30	12	29	11
844	Beaver Brown-UL DK	339	133	326	128	314	123
869	Hazelnut Brown-VY DK	48	19	46	18	45	17
898	Coffee Brown-VY DK	52	20	50	19	48	19
902	Garnet-VY DK	6	2	6	2	5	2
934	Black Avocado Green	1994	785	1917	755	1846	727
935	Avocado Green-DK	83	32	80	31	77	30
936	Avocado Green-VY DK	30	12	28	11	27	11
938	Coffee Brown-UL DK	1093	430	1051	413	1012	398

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975	Golden Brown-DK	28	11	27	10	26	10
977	Golden Brown-LT	189	74	182	71	175	69
3011	Khaki Green-DK	238	94	229	90	221	87
3012	Khaki Green-MD	63	24	60	24	58	23
3013	Khaki Green-LT	270	106	260	102	250	98
3021	Brown Gray-VY DK	1315	518	1265	498	1218	479
3022	Brown Gray-MD	31	12	30	11	29	11
3031	Mocha Brown-VY DK	461	181	443	174	427	167
3032	Mocha Brown-MD	102	40	98	38	95	37
3045	Yellow Beige-DK	161	63	154	60	149	58
3046	Yellow Beige-MD	179	70	172	67	165	65
3047	Yellow Beige-LT	131	51	126	49	121	47
3051	Green Gray-DK	169	66	163	64	157	61
3052	Green Gray-MD	53	21	51	20	49	19
3053	Green Gray	42	17	41	16	39	15
3078	Golden Yellow-VY LT	152	60	146	57	141	55
3362	Pine Green-DK	308	121	296	116	285	112
3364	Pine Green	55	22	53	21	51	20
3371	Black Brown	4355	1714	4187	1648	4032	1587
3772	Desert Sand-VY DK	23	9	22	8	21	8
3781	Mocha Brown-DK	245	96	235	92	227	89
3782	Mocha Brown-LT	17	6	16	6	15	6
3787	Brown Gray-DK	627	246	603	237	581	228
3790	Beige Gray-UL DK	35	14	34	13	33	13
3799	Pewter Gray-VY DK	6823	2686	6560	2582	6317	2487
3802	Antique Mauve-VY DK	11	4	10	3	10	3
3821	Straw	19	7	18	7	17	7
3822	Straw-LT	59	23	57	22	55	21
3823	Yellow-UL Pale	61	24	59	23	57	22
3827	Golden Brown-Pale	53	21	51	20	49	19
3828	Hazelnut Brown	165	65	159	62	153	60
3829	Old Gold-VY DK	10	4	10	3	9	3
3830	Terra Cotta-MD	4	1	4	1	4	1
3855	Autumn Gold-LT	3	1	3	1	3	1
3856	Mahogany-UL VY LT	1	1	1	1	1	1
3857	Rosewood-DK	4	1	3	1	3	1
3860	Cocoa	21	8	20	8	19	7
3862	Mocha Beige-DK	138	54	133	52	128	50
3863	Mocha Beige-MD	14	5	13	5	13	5
3865	Winter White	11	4	10	3	10	3

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
1	White 1	3	1	2	1	2	1
300	Mahogany-VY DK	5	2	5	2	5	2
310	Black	80	31	74	29	70	27
356	Terra Cotta-MD	16	6	15	5	14	5
370	Mustard-MD	134	53	125	49	118	46
371	Mustard	263	104	245	97	230	91
372	Mustard-LT	152	59	142	55	133	52
407	Desert Sand-DK	1	1	1	1	1	1
413	Pewter Gray-DK	89	35	83	32	78	30
420	Hazelnut Brown-DK	118	46	110	43	104	41
422	Hazelnut Brown-LT	99	39	92	36	87	34
433	Brown-MD	32	12	29	11	28	11

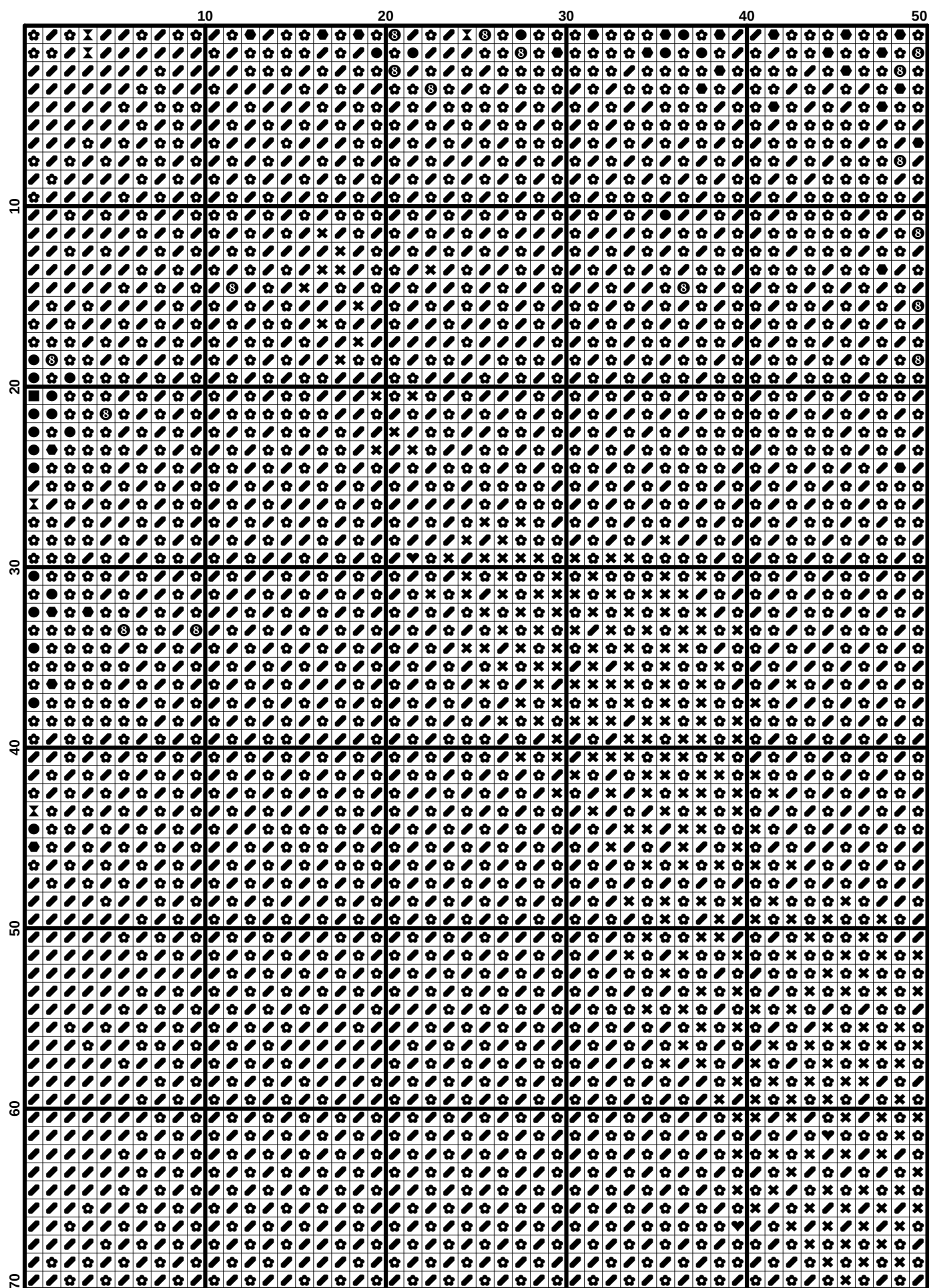
434	Brown-LT	13	5	12	4	11	4
435	Brown-VY LT	199	78	186	73	174	69
436	Tan	89	35	83	32	78	30
437	Tan-LT	23	9	22	8	20	8
445	Lemon-LT	28	11	26	10	25	10
472	Avocado Green-UL LT	107	42	100	39	93	37
500	Blue Green-VY DK	791	311	738	290	692	272
520	Fern Green-DK	131	51	122	47	114	44
535	Ash Gray-VY LT	36	14	34	13	32	12
610	Drab Brown-DK	253	100	236	93	222	87
611	Drab Brown	346	136	323	127	303	119
612	Drab Brown-LT	214	84	200	79	187	74
613	Drab Brown-VY LT	12	5	11	4	10	4
632	Desert Sand-UL VY DK	66	26	61	24	57	23
640	Beige Gray-VY DK	205	80	191	75	179	70
642	Beige Gray-DK	26	10	24	9	23	8
644	Beige Gray-MD	5	1	4	1	4	1
645	Beaver Gray-VY DK	79	31	74	29	69	27
676	Old Gold-LT	21	8	20	7	19	7
677	Old Gold-VY LT	171	67	160	62	150	59
680	Old Gold-DK	12	5	11	4	11	4
712	Cream	11	4	10	4	10	3
727	Topaz-VY LT	10	3	9	3	8	3
729	Old Gold-MD	78	31	73	29	69	27
732	Olive Green	5	1	4	1	4	1
733	Olive Green-MD	19	7	17	7	16	6
734	Olive Green-LT	28	11	26	10	25	10
738	Tan-VY LT	212	83	197	77	185	73
739	Tan-UL VY LT	64	25	60	23	56	22
745	Yellow-LT Pale	128	50	119	47	112	44
746	Off White	156	61	145	57	136	53
772	Yellow Green-VY LT	43	17	40	16	38	15
782	Topaz-DK	3	1	2	1	2	1
783	Topaz-MD	3	1	2	1	2	1
801	Coffee Brown-DK	28	10	26	10	24	9
822	Beige Gray-LT	6	2	6	2	6	2
829	Golden Olive-VY DK	30	12	28	11	26	10
830	Golden Olive-DK	80	31	74	29	70	27
831	Golden Olive-MD	15	6	14	5	13	5
832	Golden Olive	15	6	14	5	13	5
833	Golden Olive-LT	15	6	14	5	14	5
834	Golden Olive-VY LT	206	80	192	75	180	70
838	Beige Brown-VY DK	114	44	106	41	100	39
839	Beige Brown-DK	107	42	100	39	94	37
840	Beige Brown-MD	28	11	26	10	25	10
844	Beaver Brown-UL DK	303	119	283	111	265	104
869	Hazelnut Brown-VY DK	43	17	40	16	38	15
898	Coffee Brown-VY DK	46	18	43	17	41	16
902	Garnet-VY DK	5	2	5	2	5	2
934	Black Avocado Green	1780	701	1661	654	1558	613
935	Avocado Green-DK	74	29	69	27	65	25
936	Avocado Green-VY DK	26	10	25	10	23	9
938	Coffee Brown-UL DK	976	384	911	358	854	336
975	Golden Brown-DK	25	10	23	9	22	8
977	Golden Brown-LT	169	66	158	62	148	58
3011	Khaki Green-DK	213	84	199	78	186	73
3012	Khaki Green-MD	56	22	52	20	49	19
3013	Khaki Green-LT	241	95	225	88	211	83
3021	Brown Gray-VY DK	1175	462	1096	431	1028	404

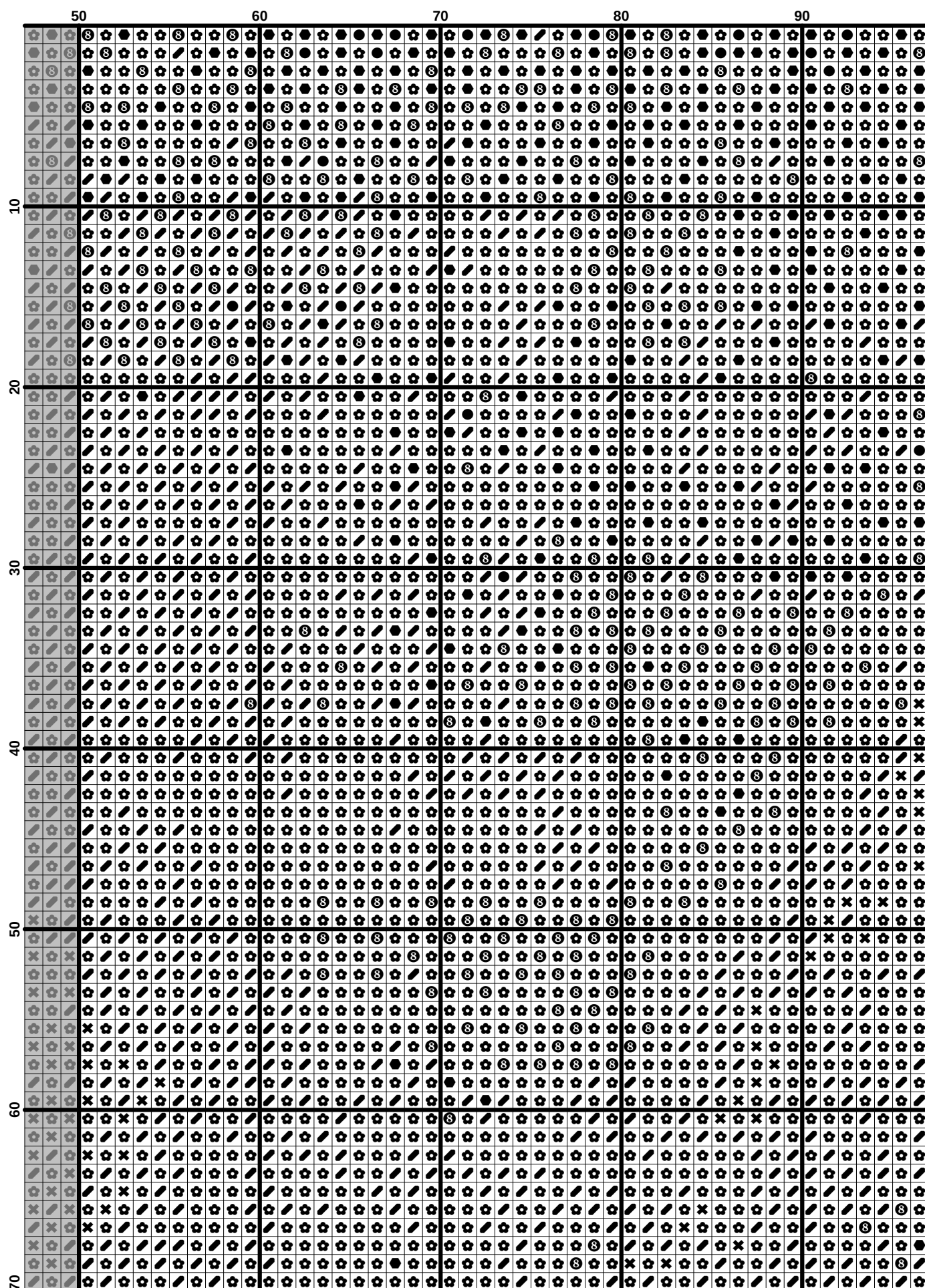
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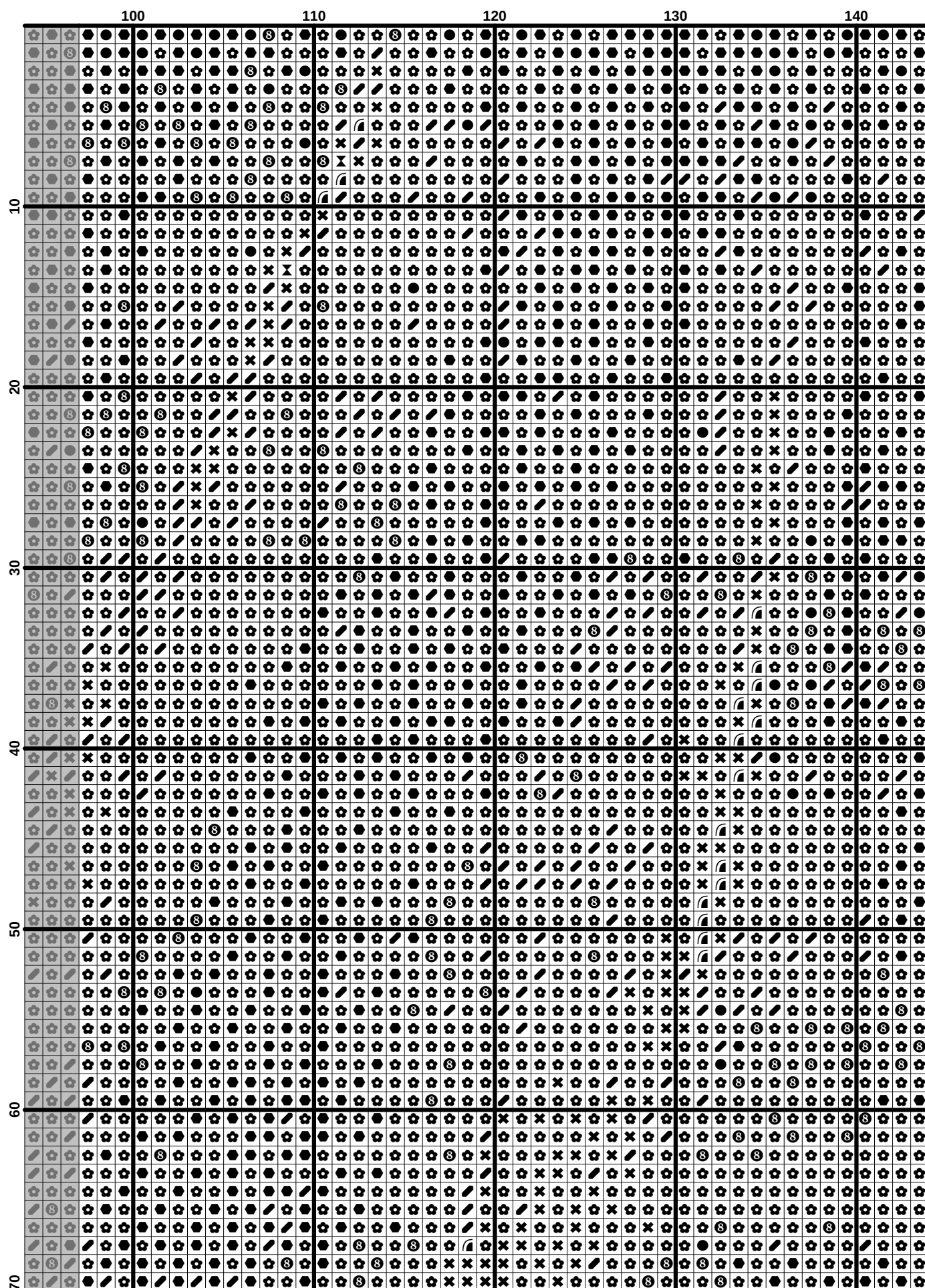
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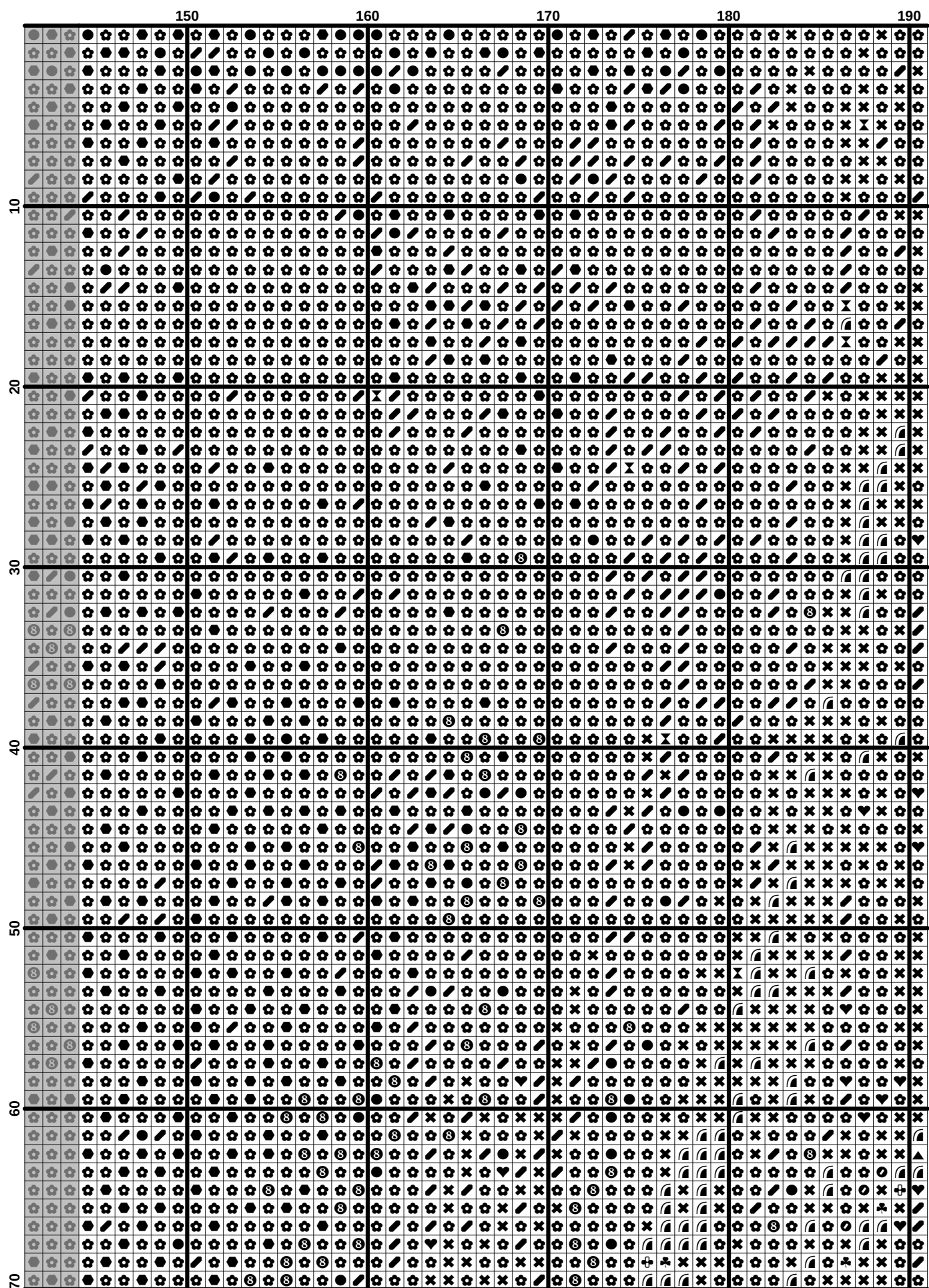
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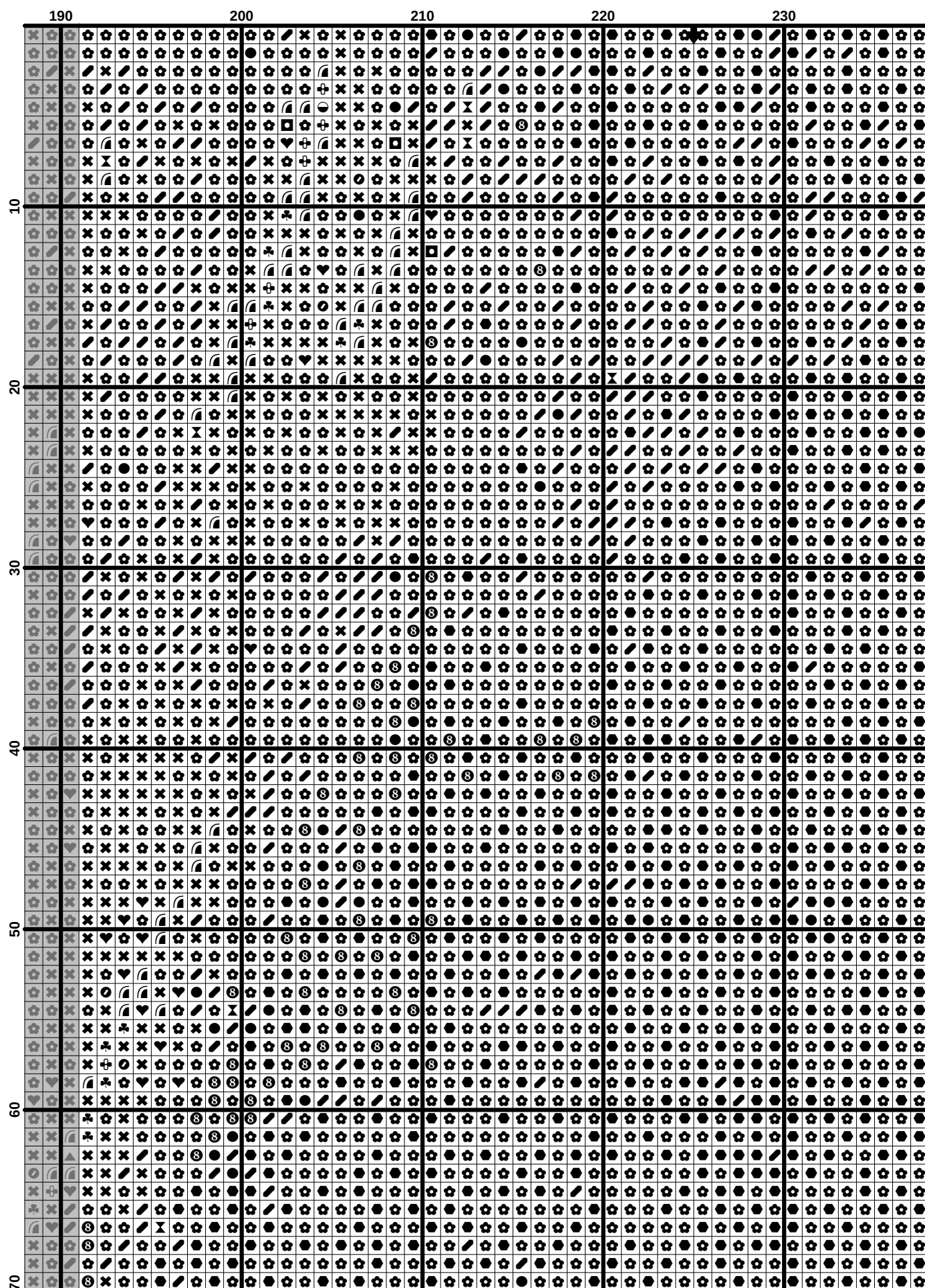
3022	Brown Gray-MD	28	10	26	10	24	9
3031	Mocha Brown-VY DK	411	161	384	151	360	141
3032	Mocha Brown-MD	91	35	85	33	80	31
3045	Yellow Beige-DK	143	56	134	52	125	49
3046	Yellow Beige-MD	159	62	149	58	140	55
3047	Yellow Beige-LT	117	46	109	43	102	40
3051	Green Gray-DK	151	59	141	55	132	52
3052	Green Gray-MD	48	19	44	17	42	16
3053	Green Gray	38	15	35	14	33	13
3078	Golden Yellow-VY LT	136	53	127	50	119	47
3362	Pine Green-DK	275	108	257	101	241	95
3364	Pine Green	50	19	46	18	43	17
3371	Black Brown	3888	1531	3629	1429	3402	1339
3772	Desert Sand-VY DK	21	8	19	7	18	7
3781	Mocha Brown-DK	219	86	204	80	191	75
3782	Mocha Brown-LT	15	6	14	5	13	5
3787	Brown Gray-DK	560	220	523	205	490	192
3790	Beige Gray-UL DK	32	12	29	11	28	11
3799	Pewter Gray-VY DK	6092	2398	5686	2238	5330	2098
3802	Antique Mauve-VY DK	10	3	9	3	8	3
3821	Straw	17	6	16	6	15	6
3822	Straw-LT	53	21	49	19	46	18
3823	Yellow-UL Pale	55	21	51	20	48	19
3827	Golden Brown-Pale	48	19	44	17	42	16
3828	Hazelnut Brown	147	58	137	54	129	51
3829	Old Gold-VY DK	9	3	8	3	8	3
3830	Terra Cotta-MD	4	1	4	1	3	1
3855	Autumn Gold-LT	3	1	2	1	2	1
3856	Mahogany-UL VY LT	1	1	1	1	1	1
3857	Rosewood-DK	3	1	3	1	3	1
3860	Cocoa	19	7	17	7	16	6
3862	Mocha Beige-DK	123	48	115	45	108	42
3863	Mocha Beige-MD	12	5	11	4	11	4
3865	Winter White	10	3	9	3	8	3

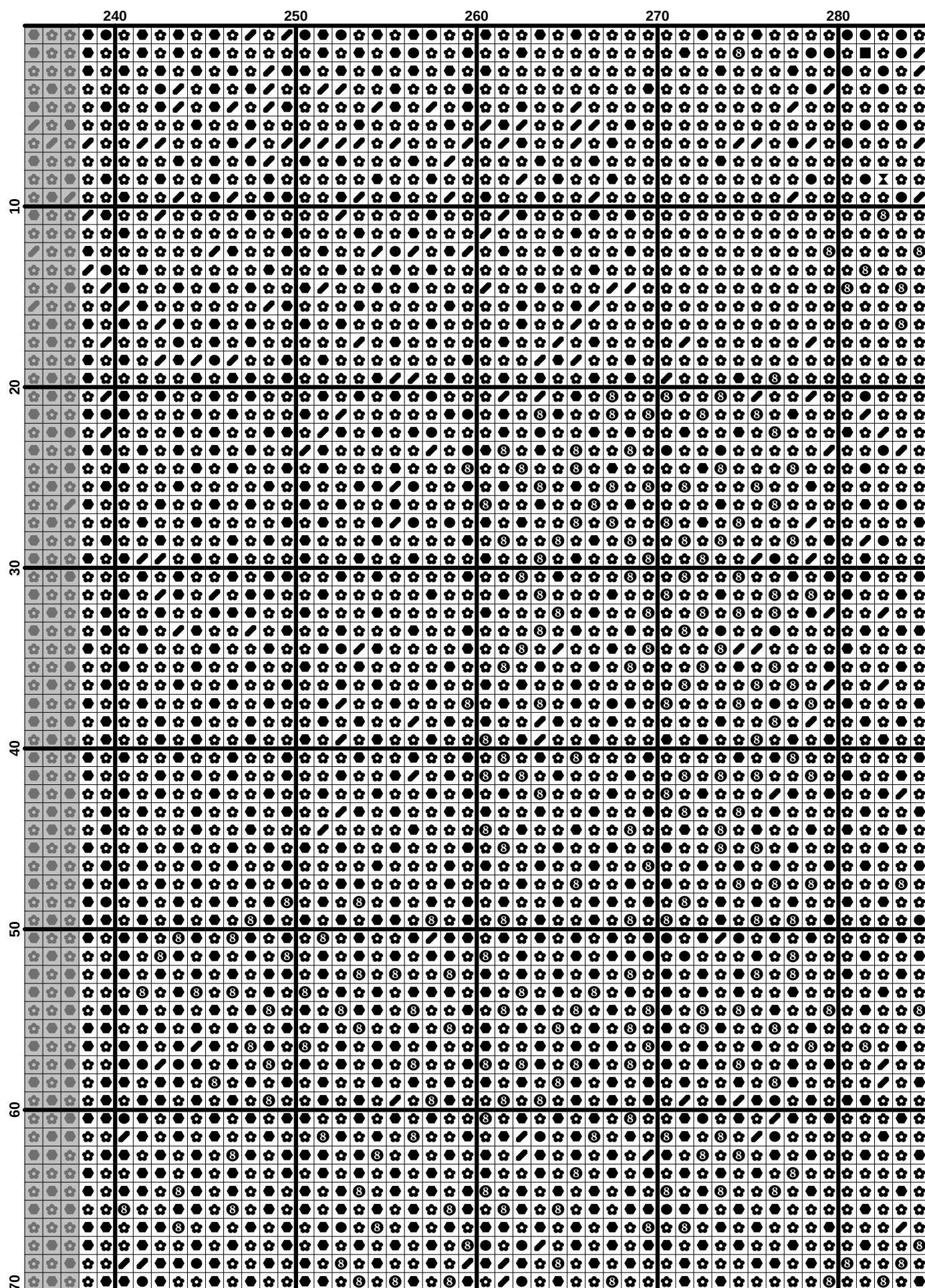


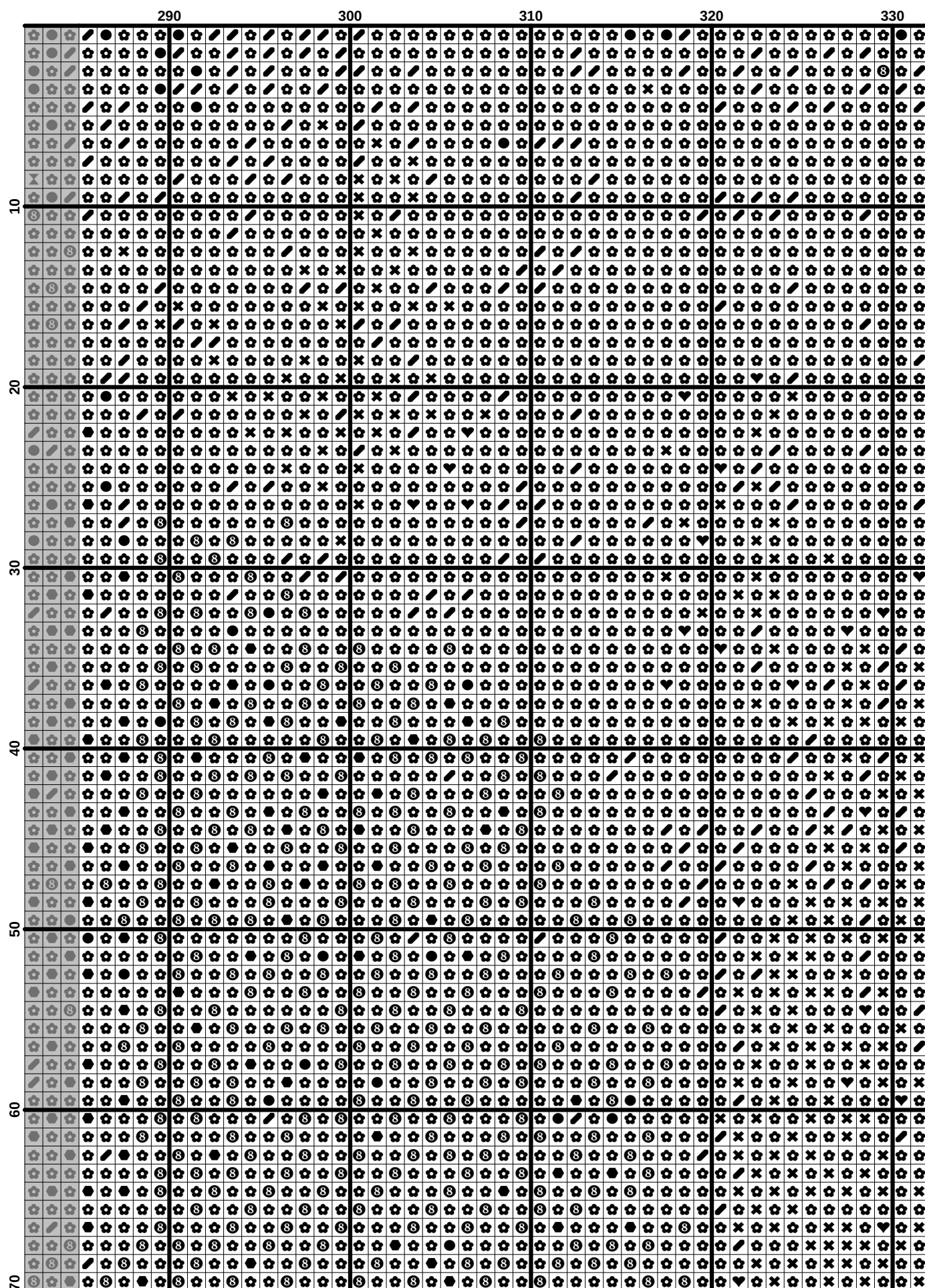


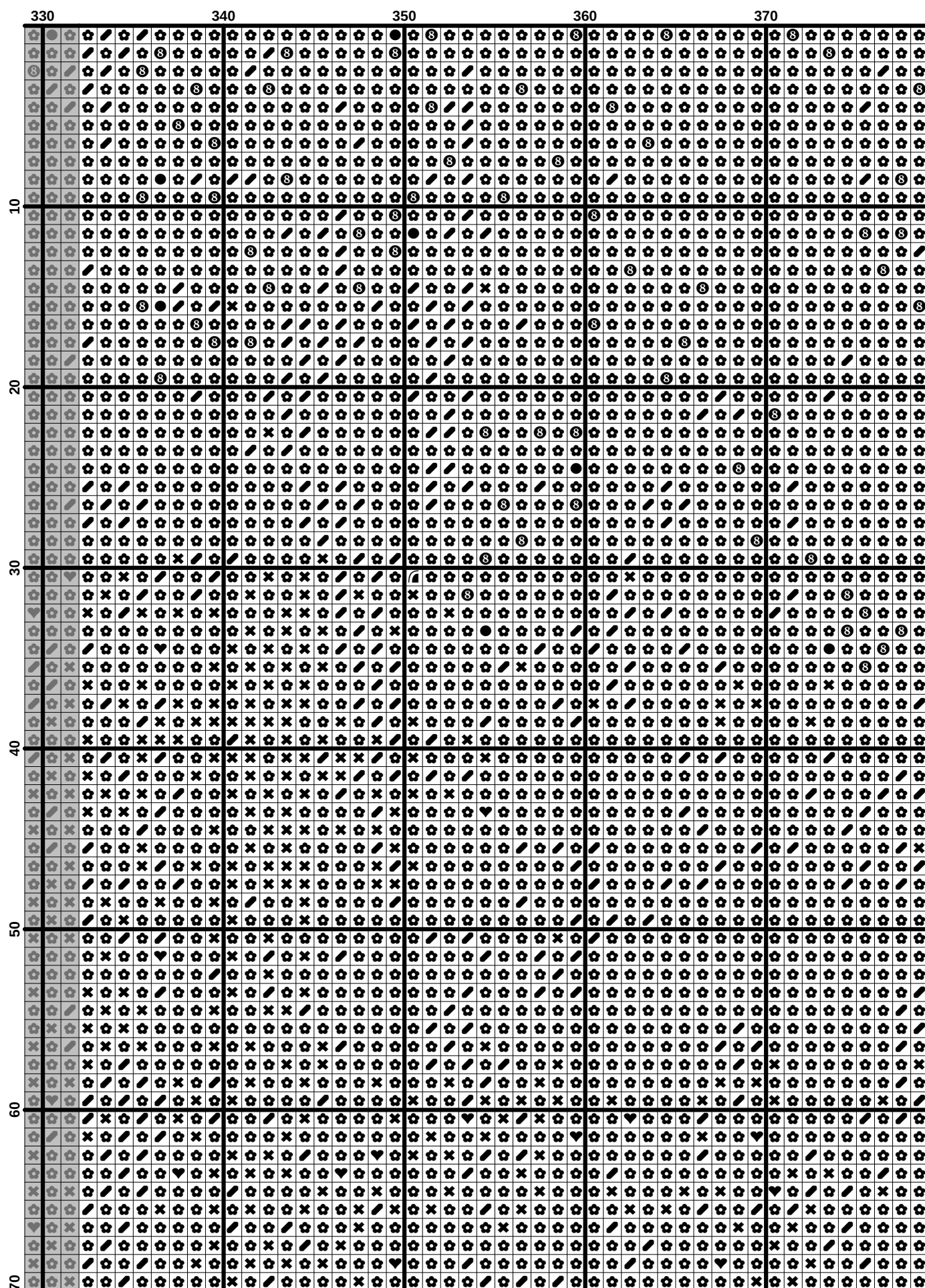


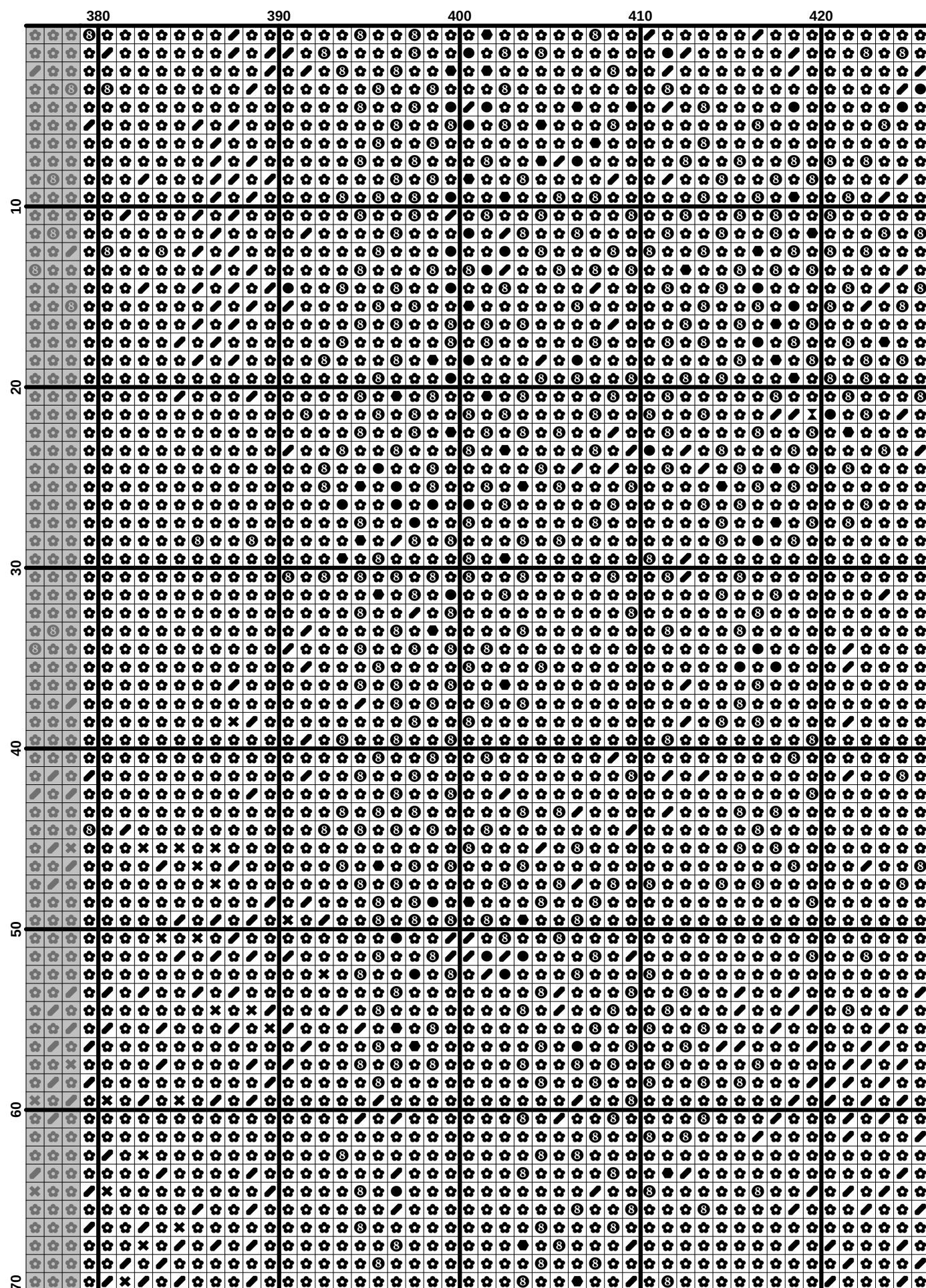


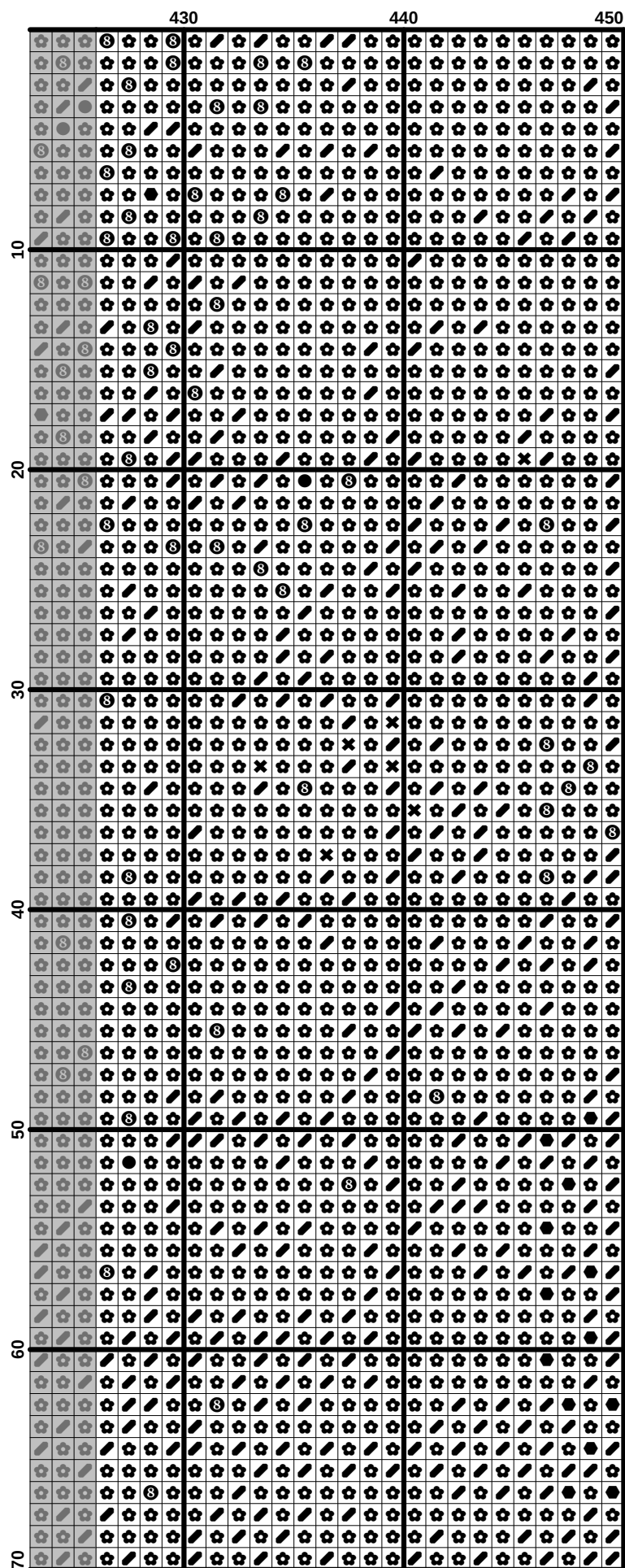


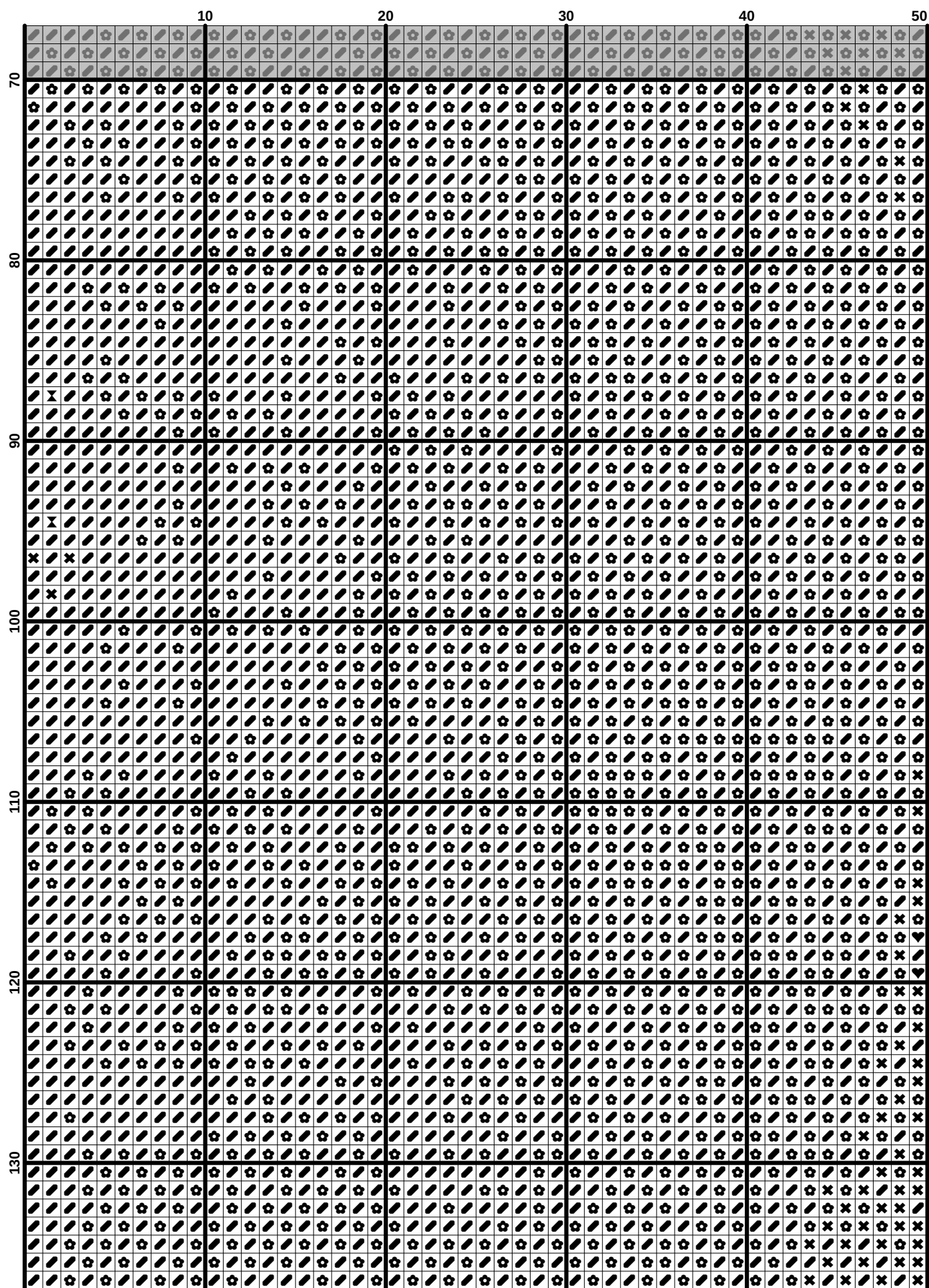


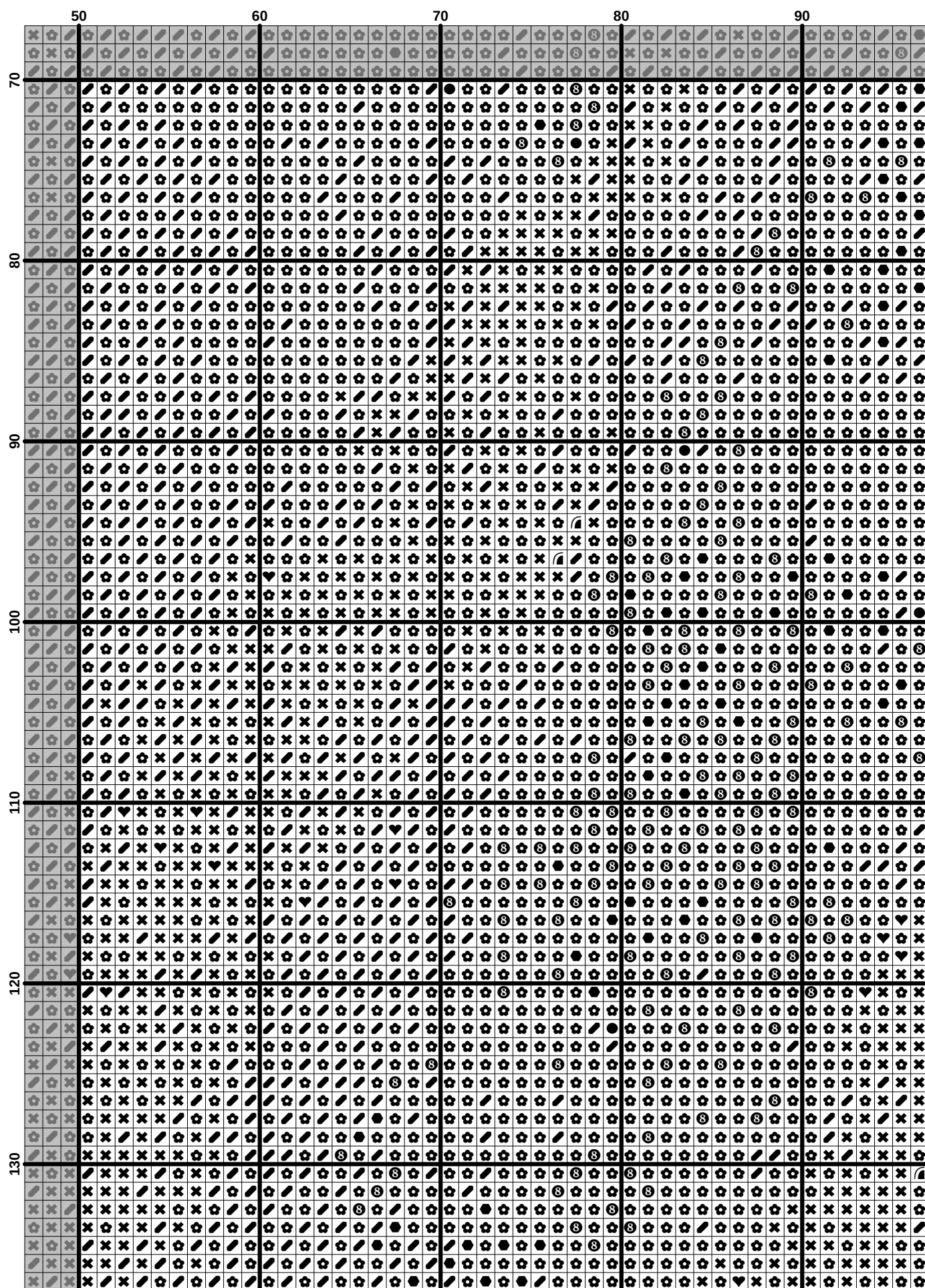


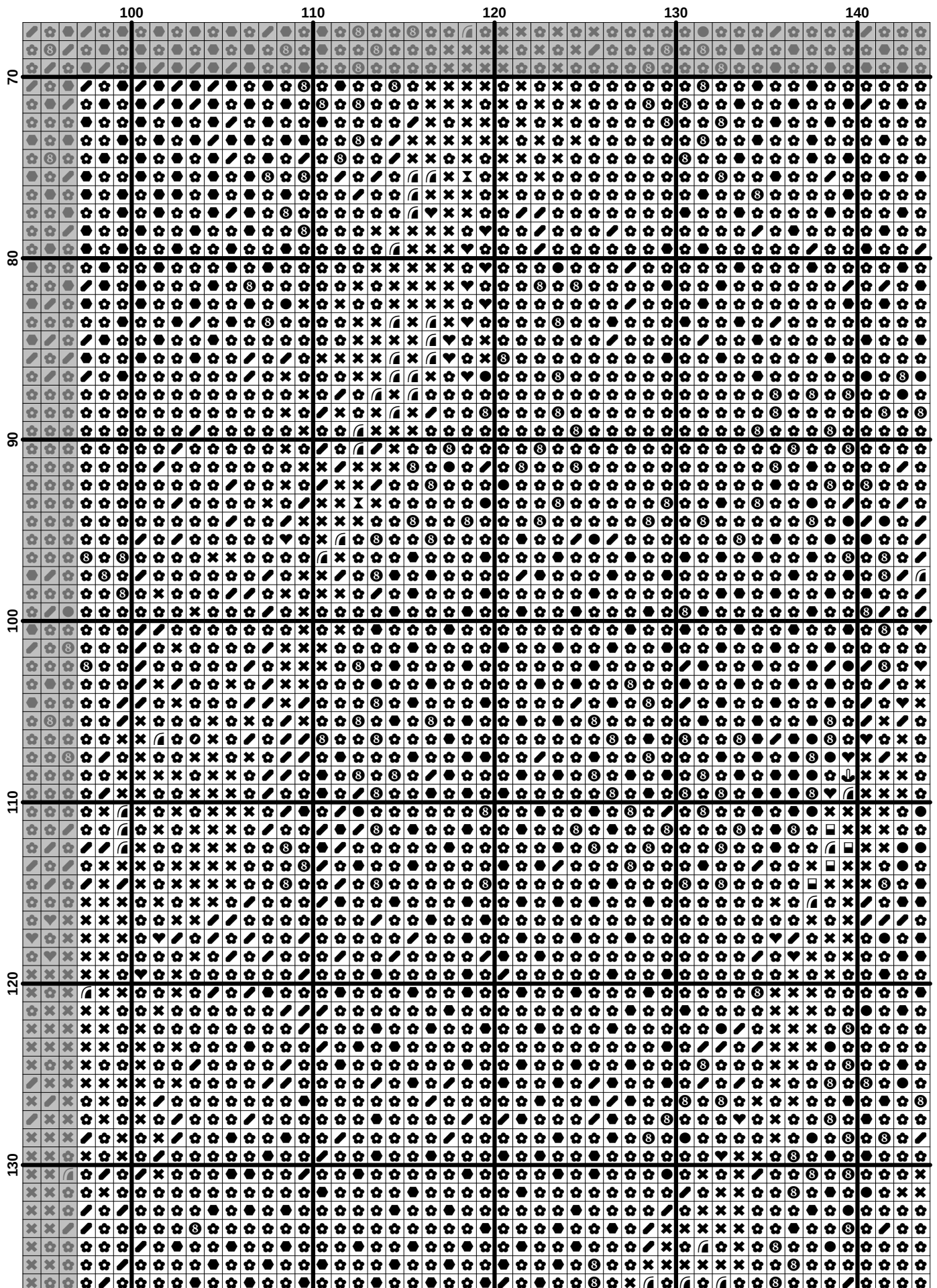


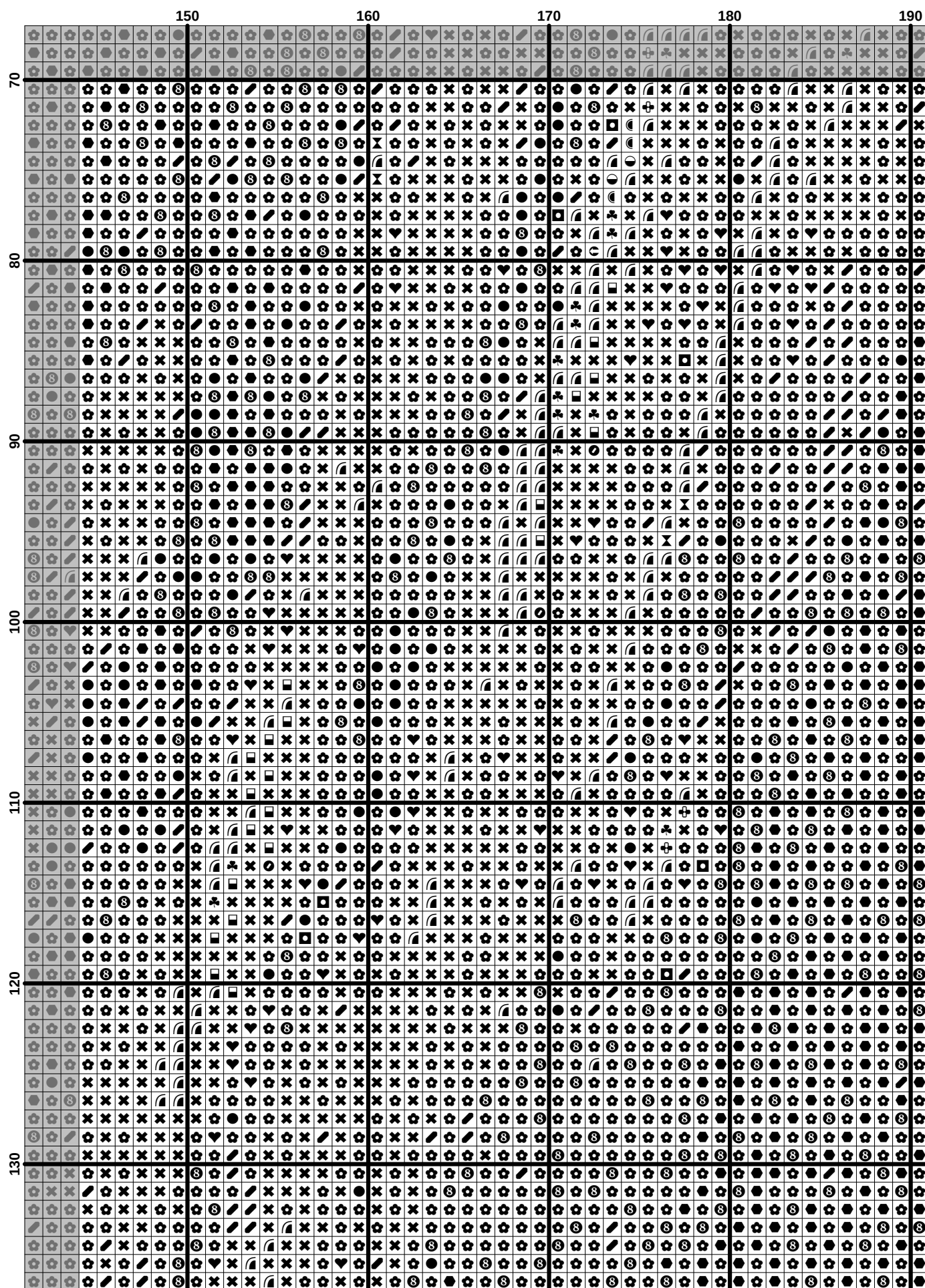


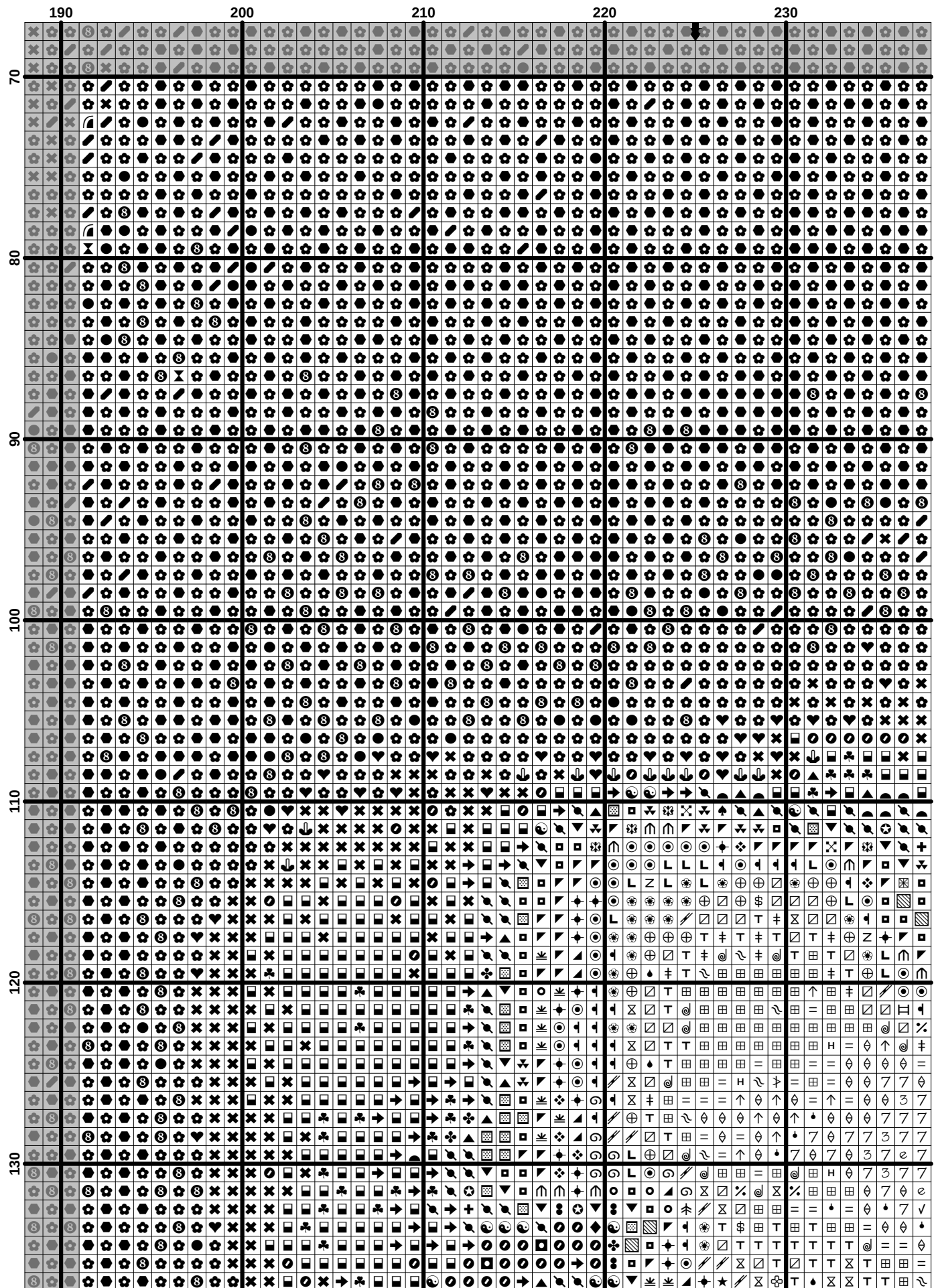




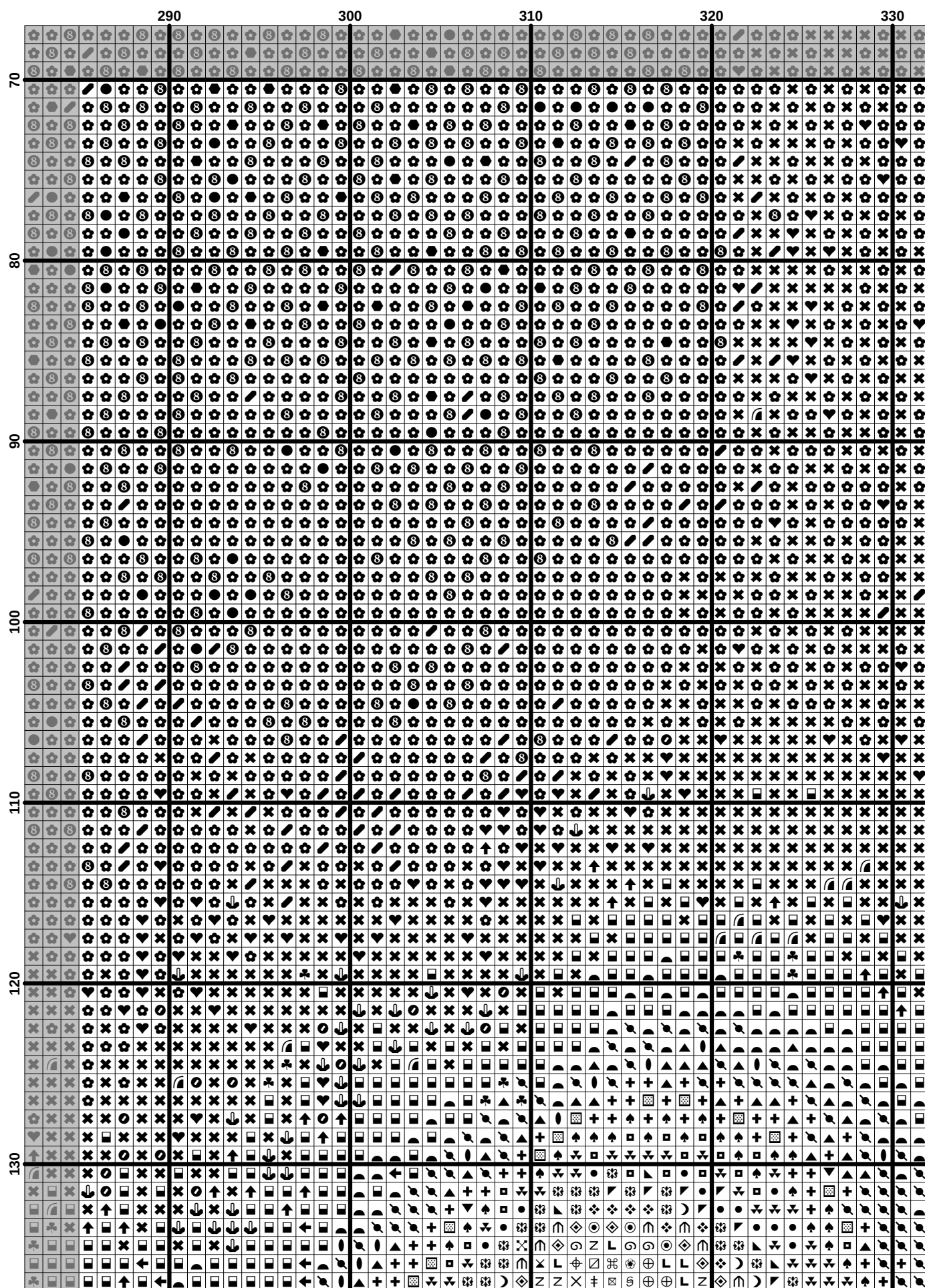


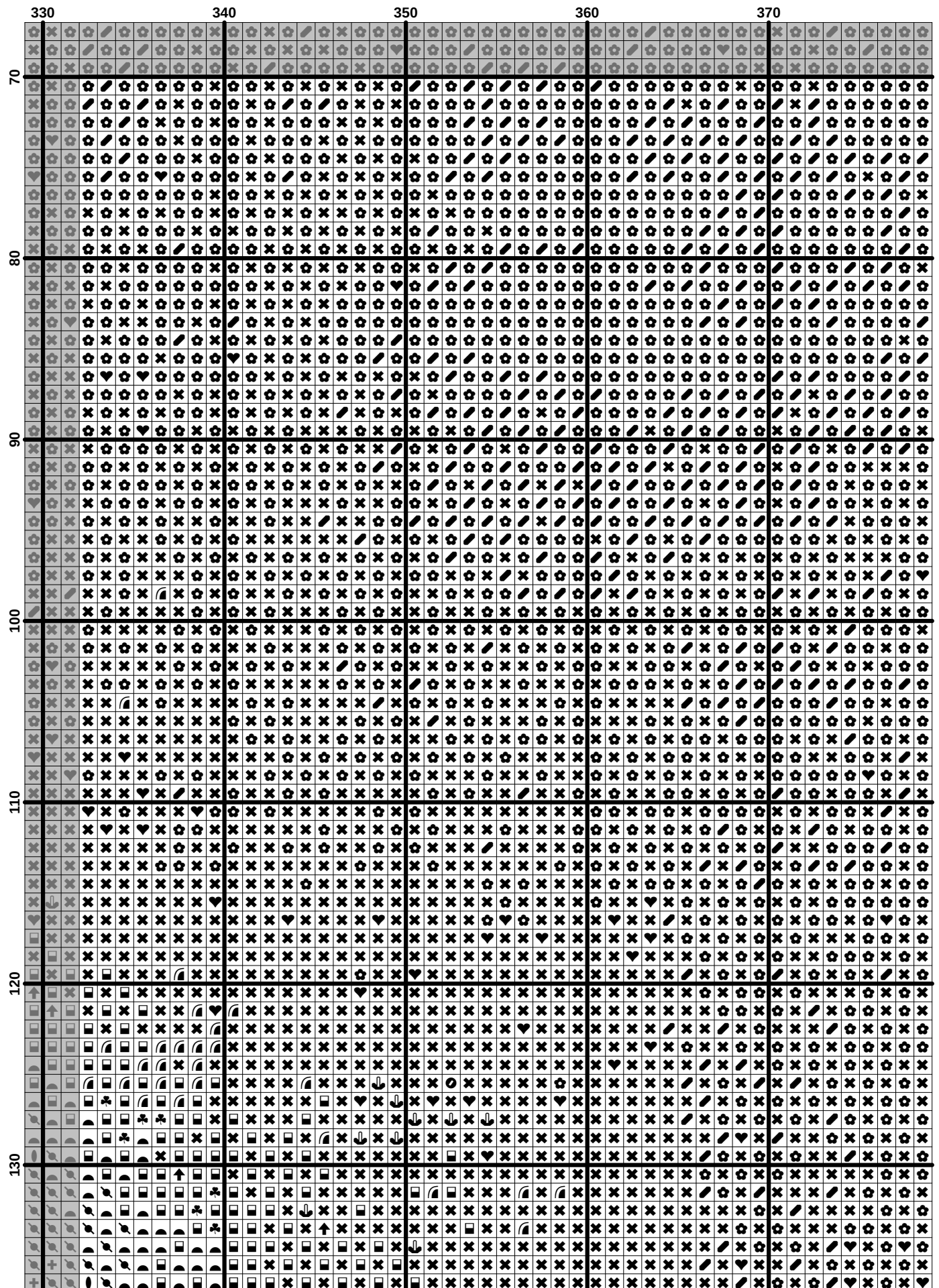


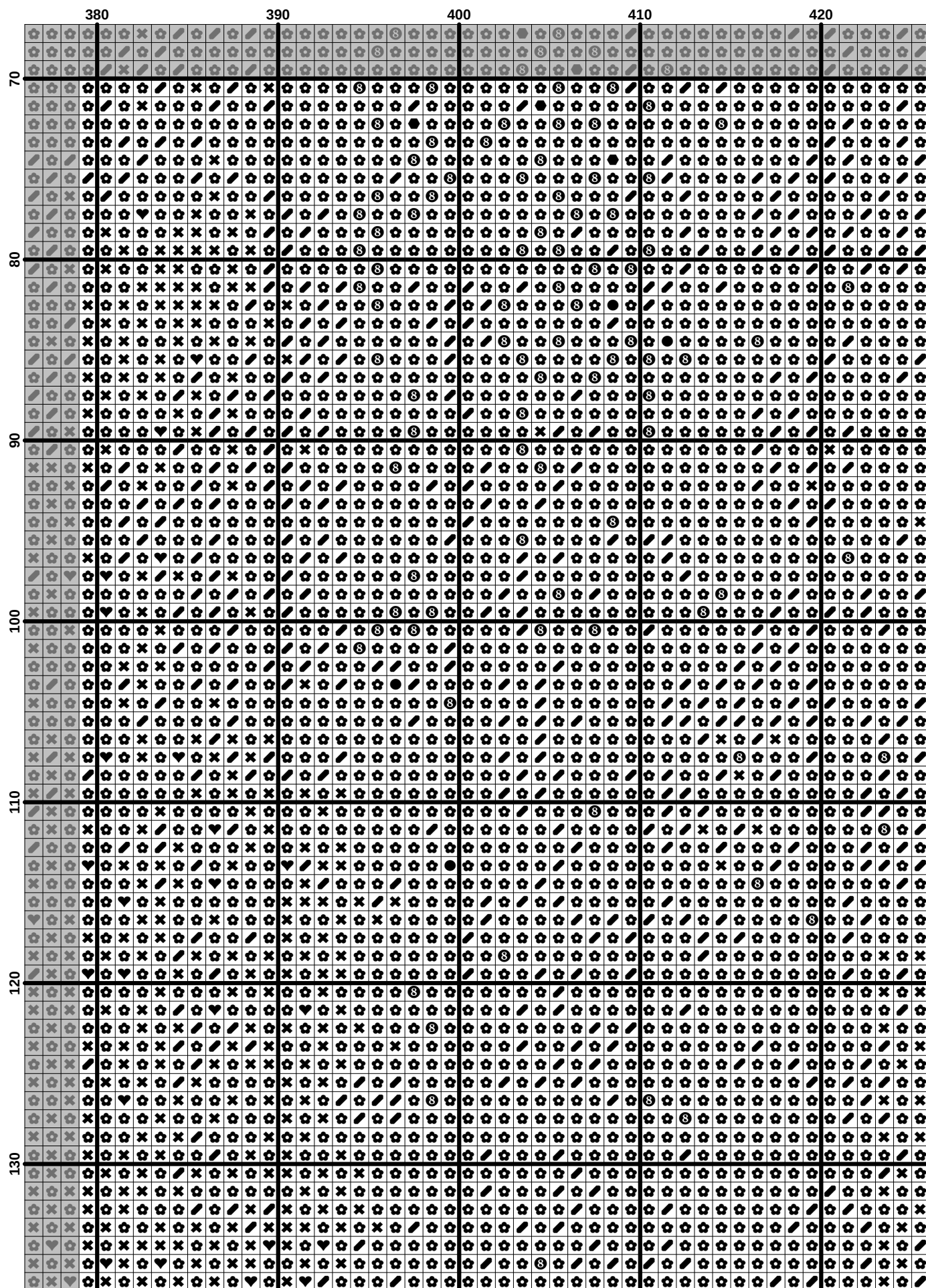


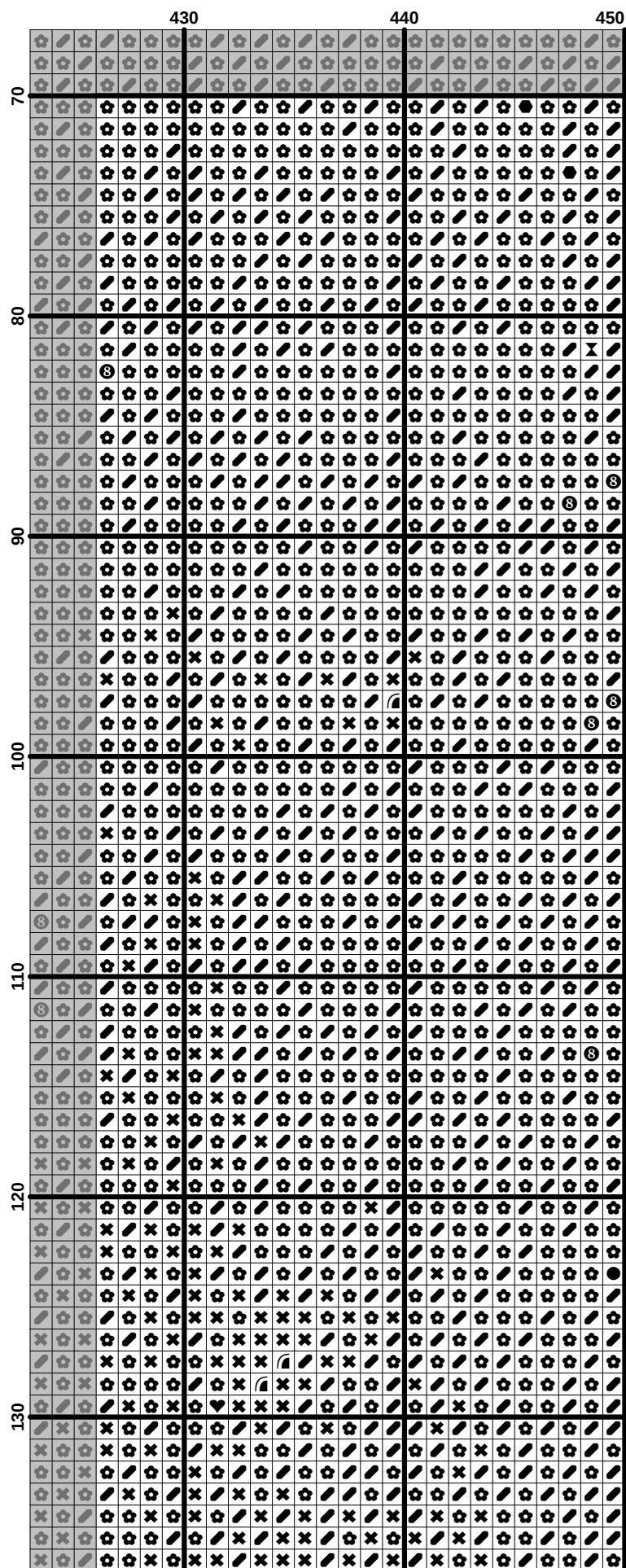


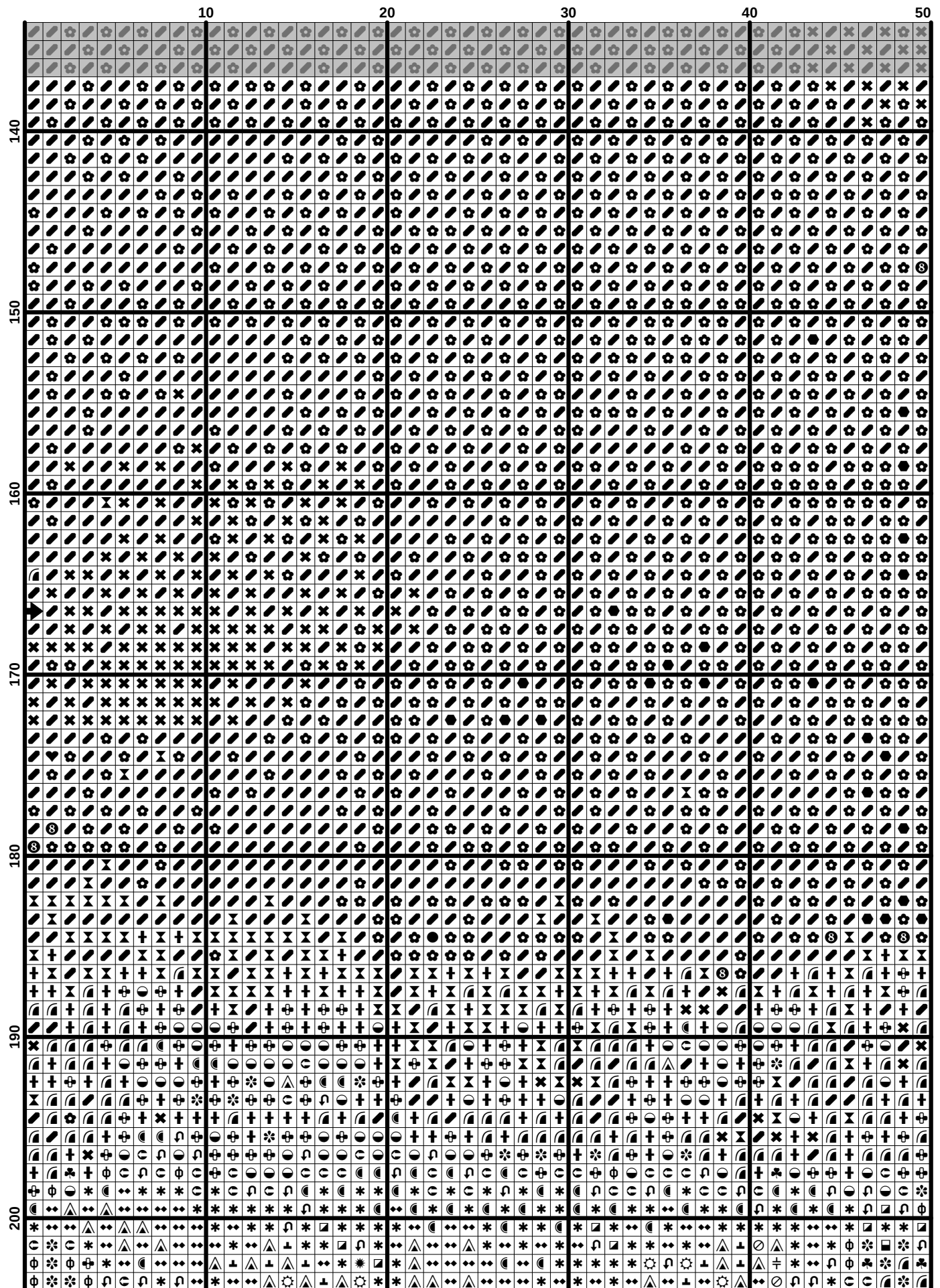
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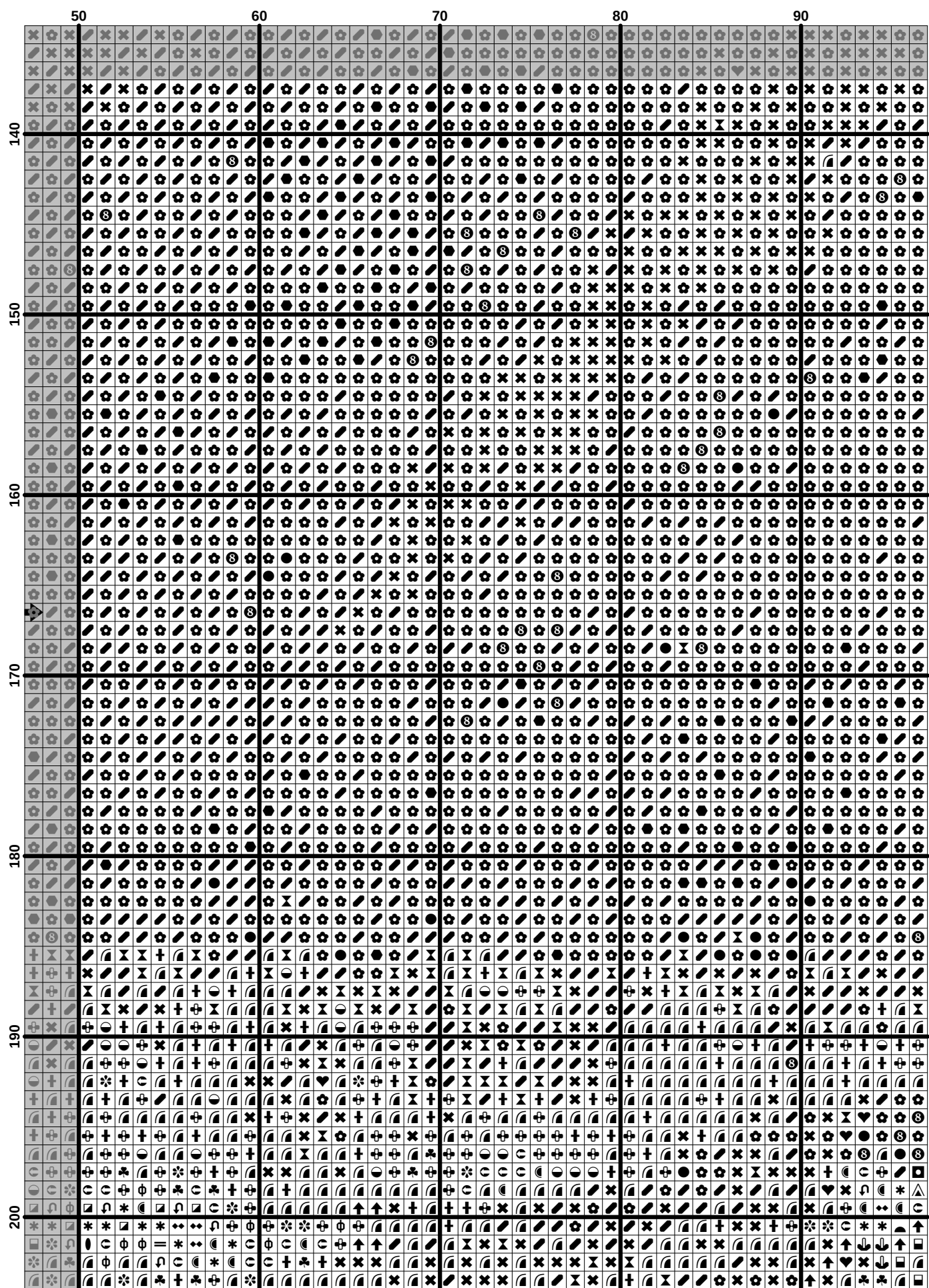


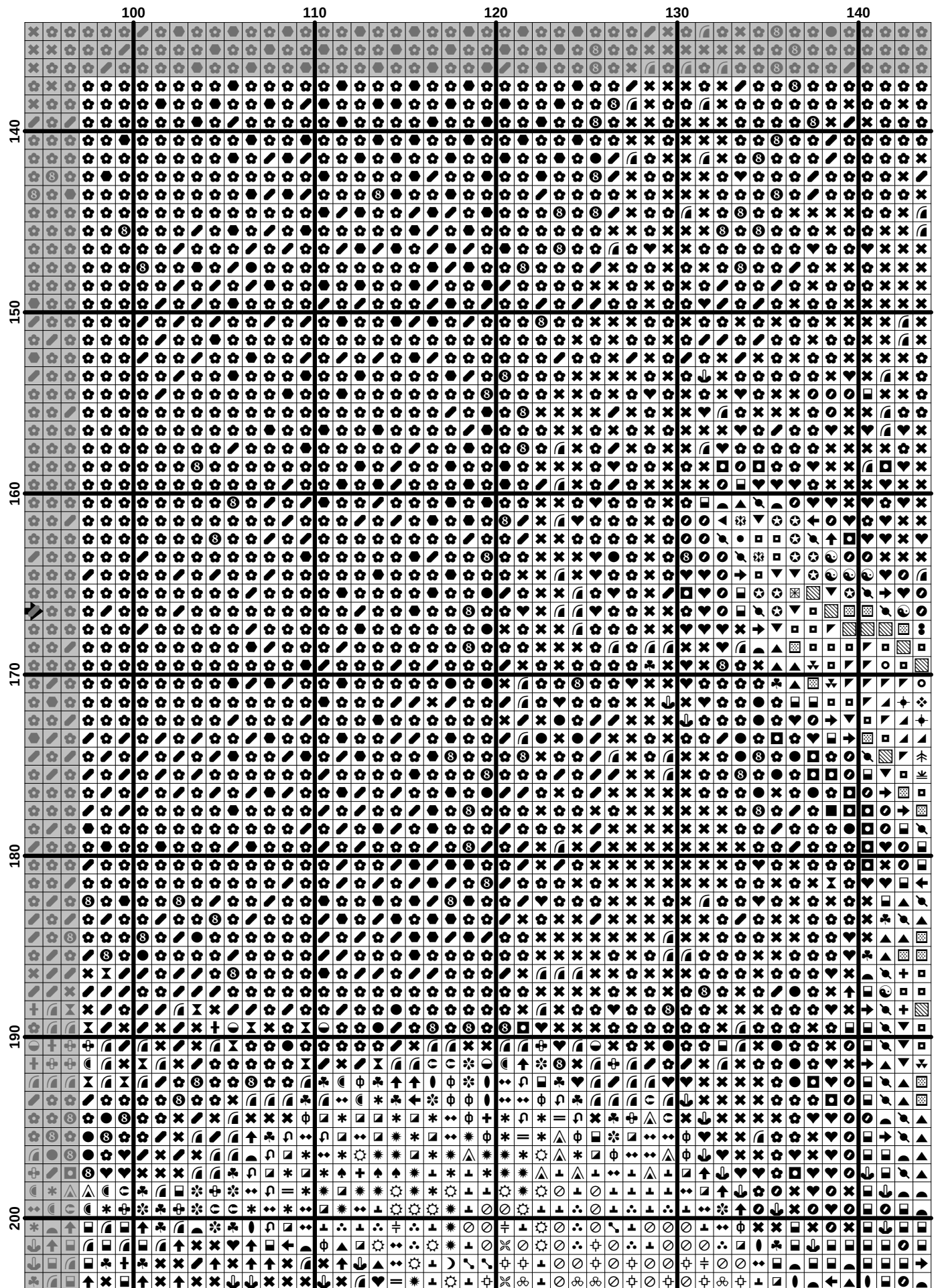


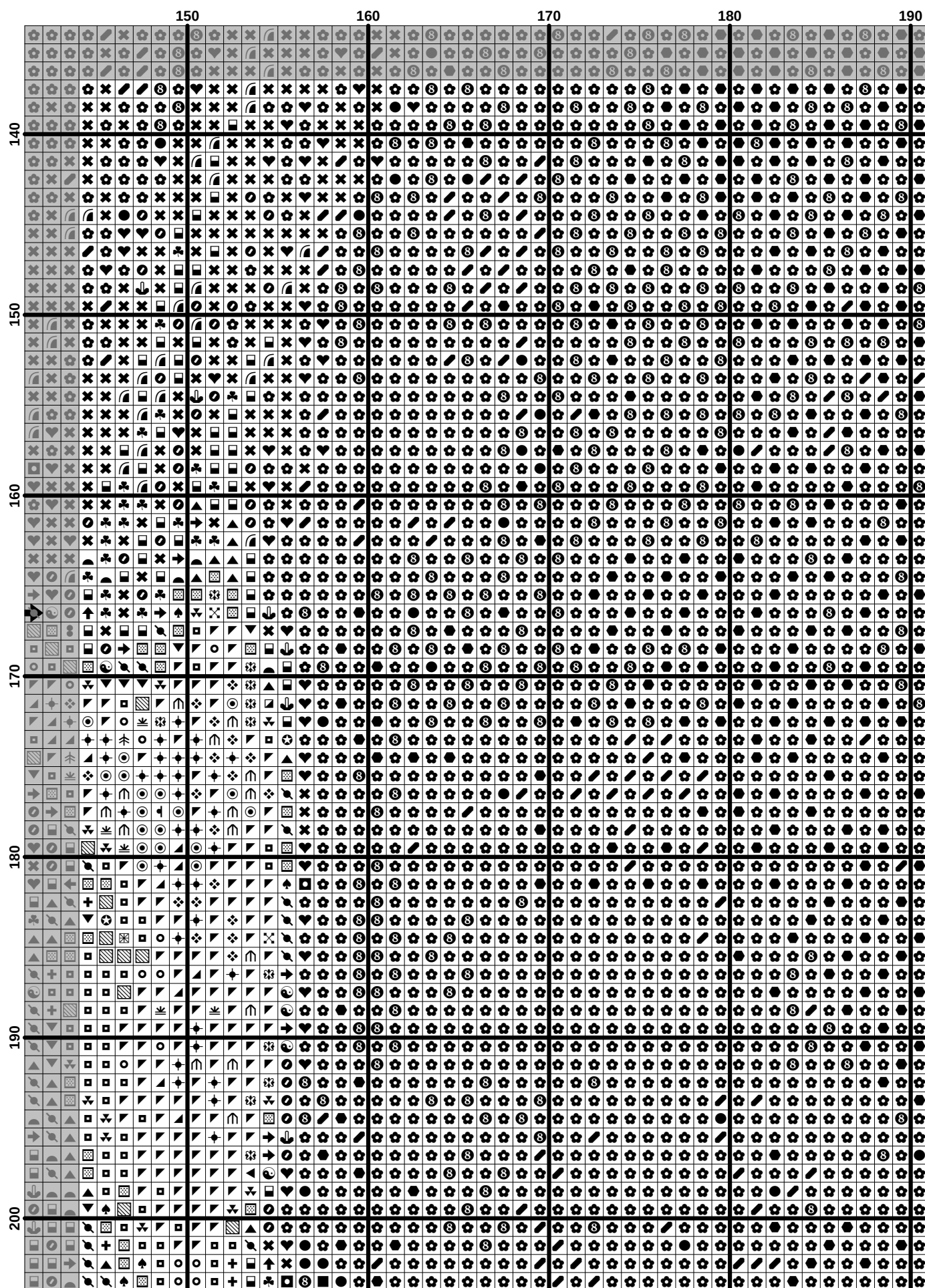


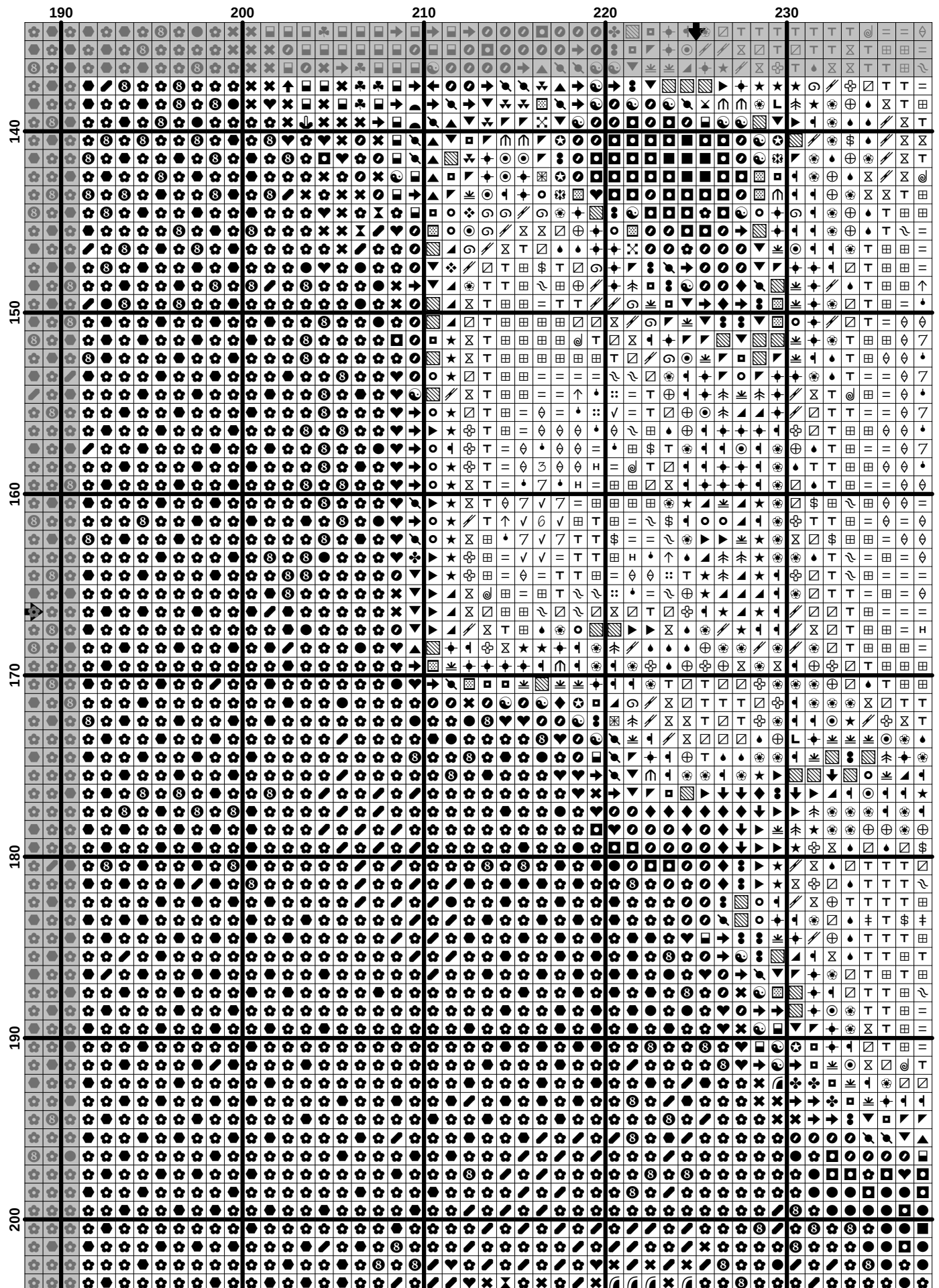






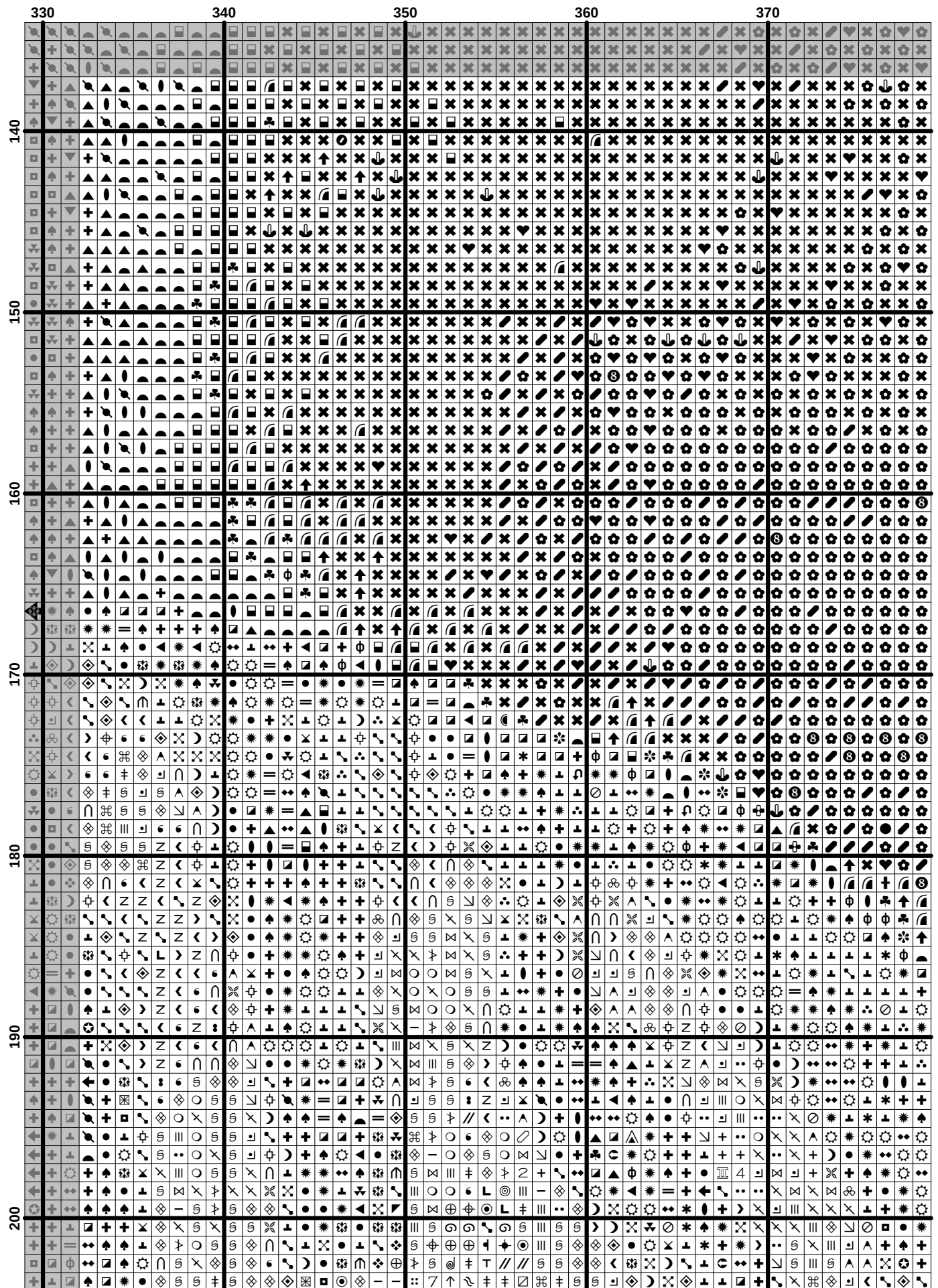


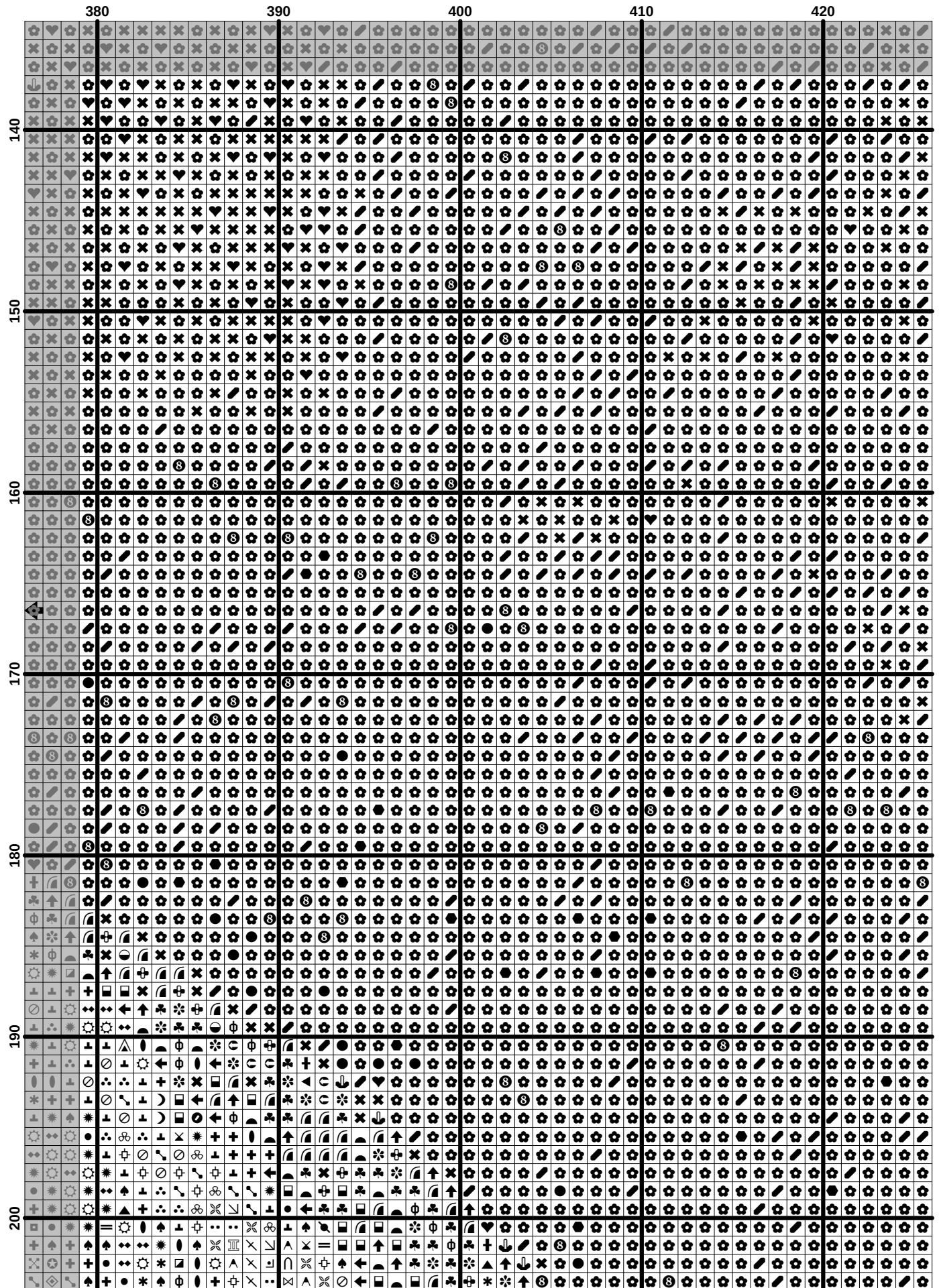




$$(36) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

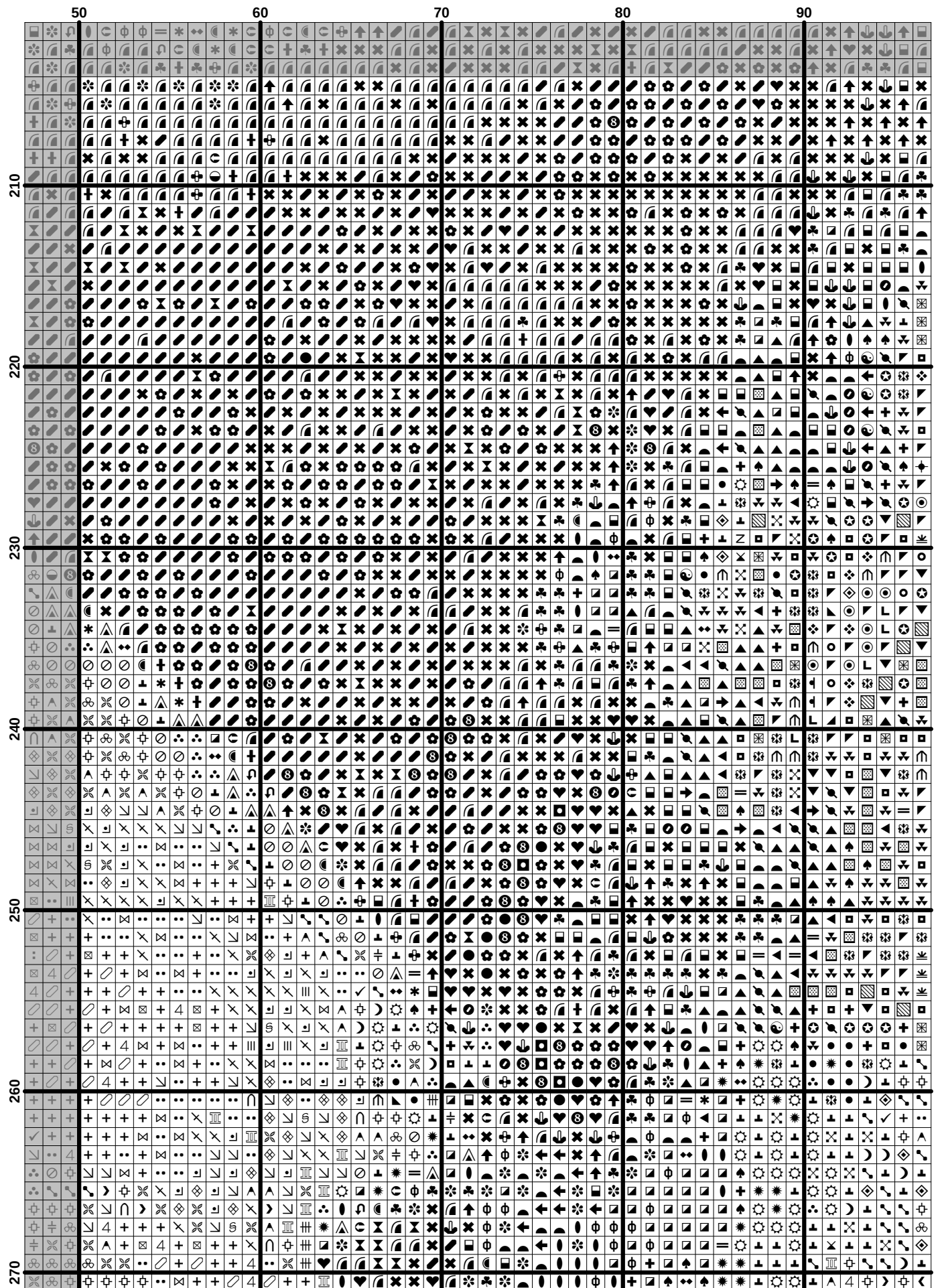
(38)







$$(41) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (42)$$



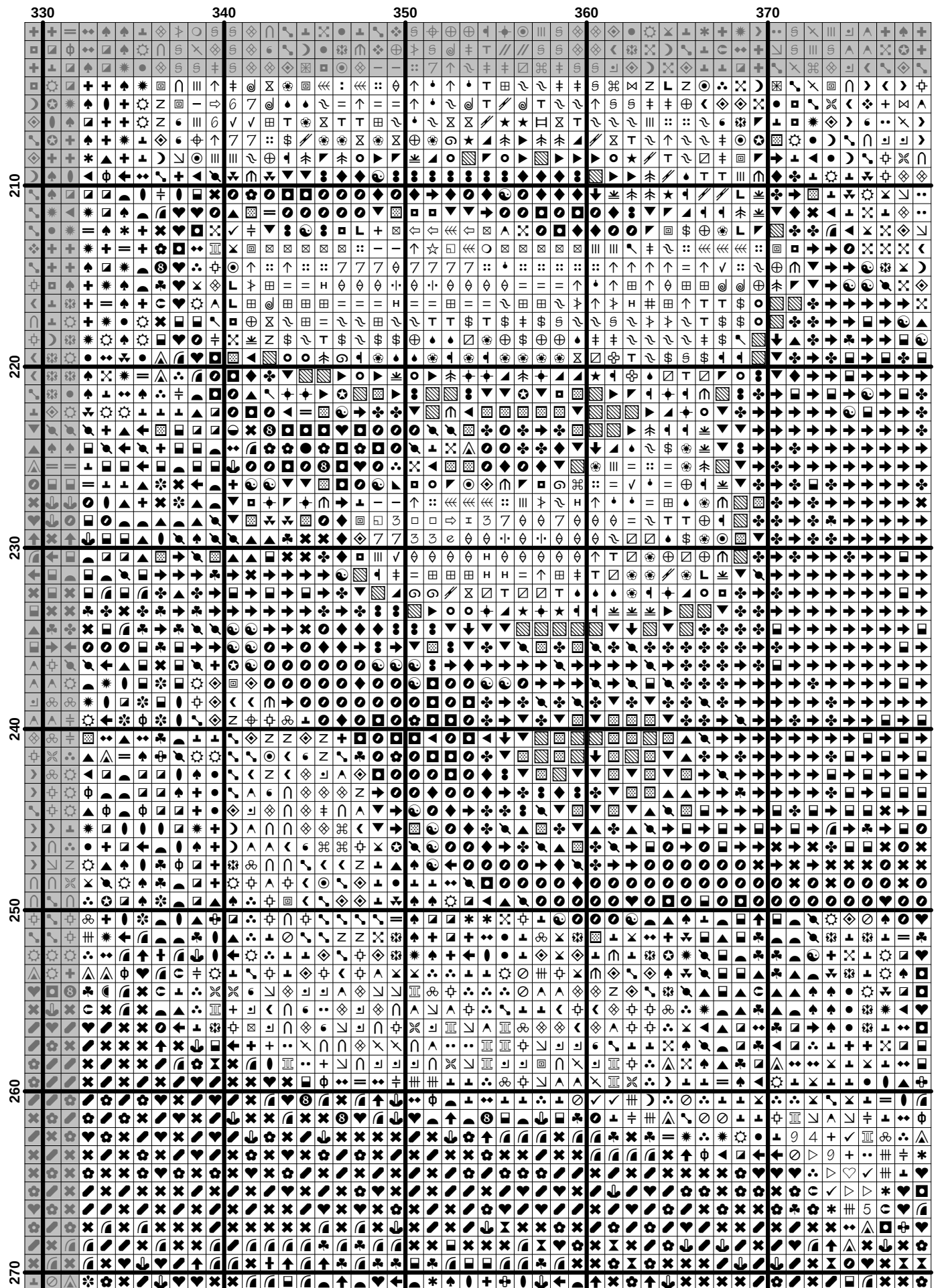
[illegible]

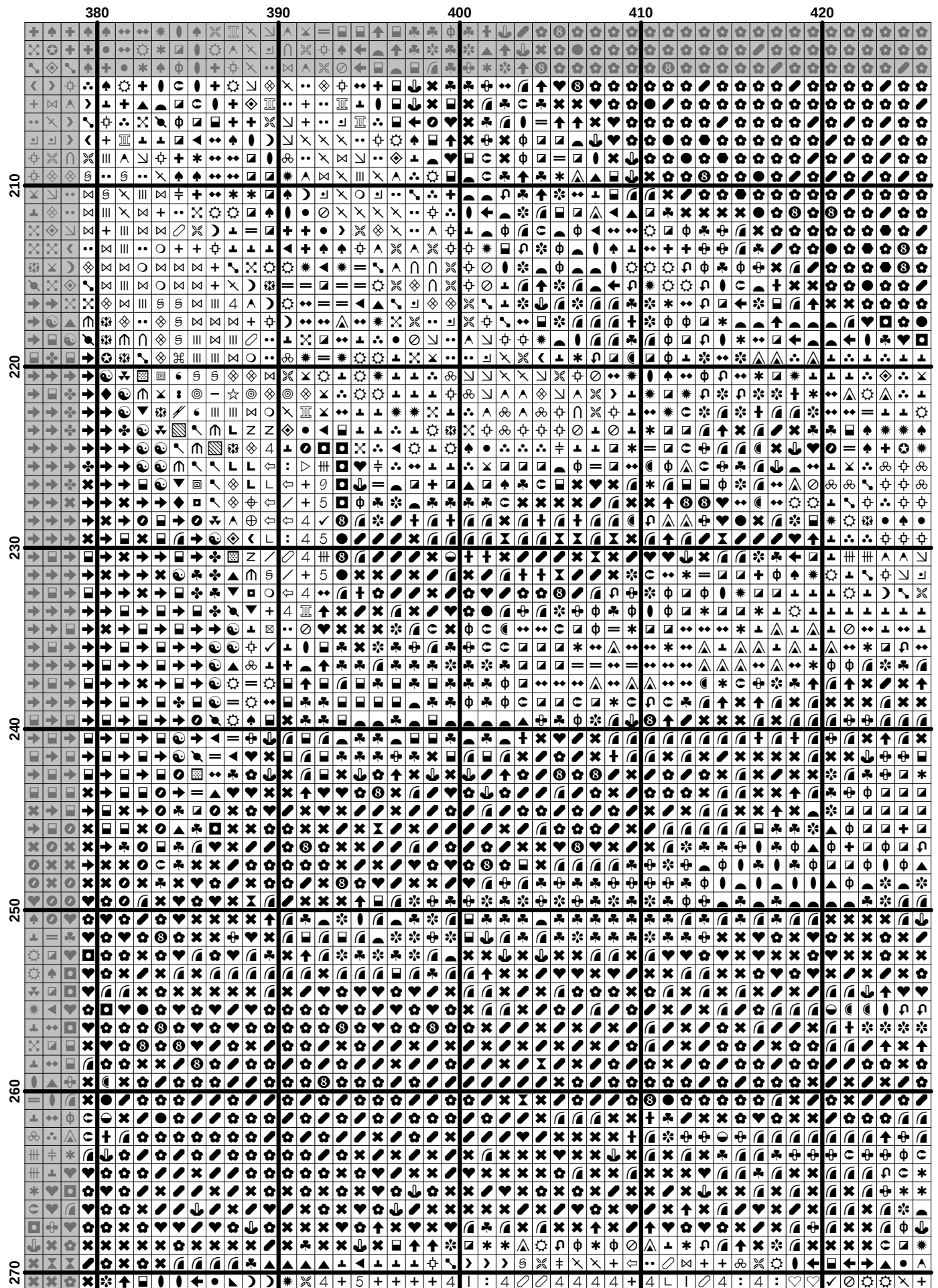
$$(44) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (45)$$

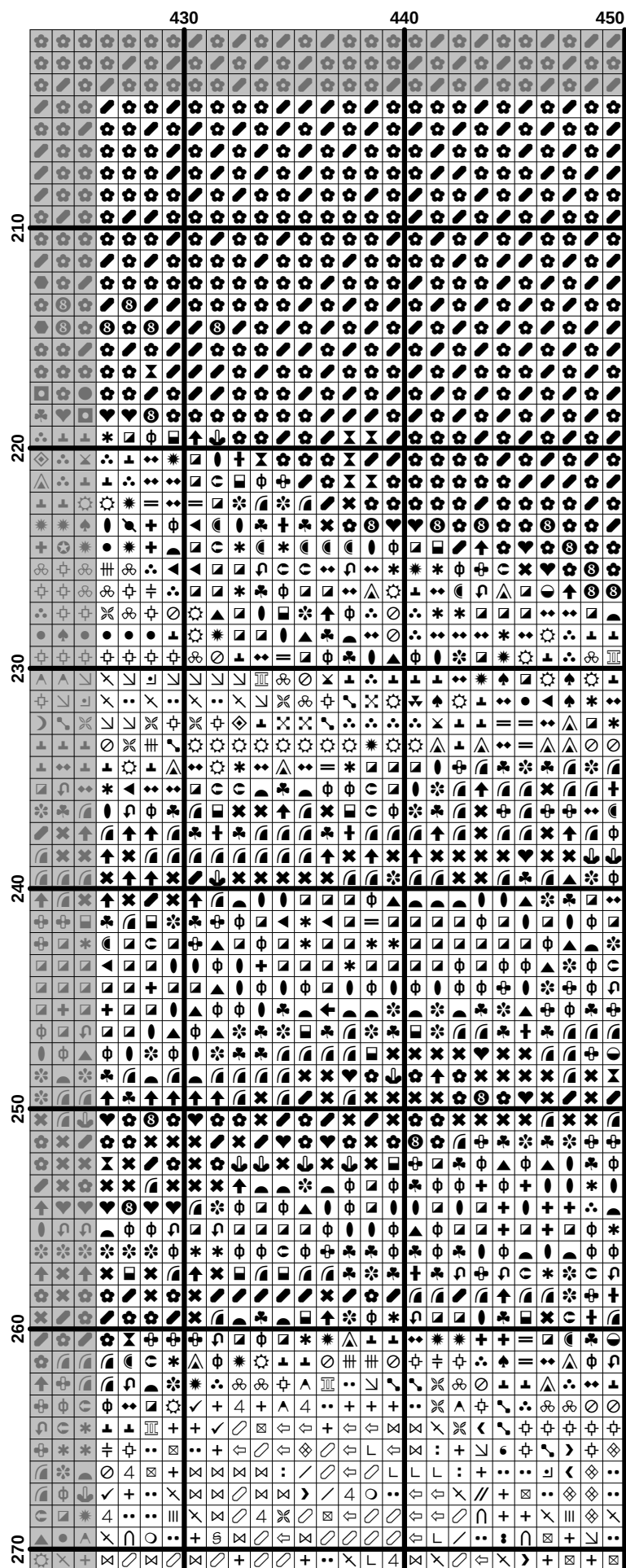
(46)

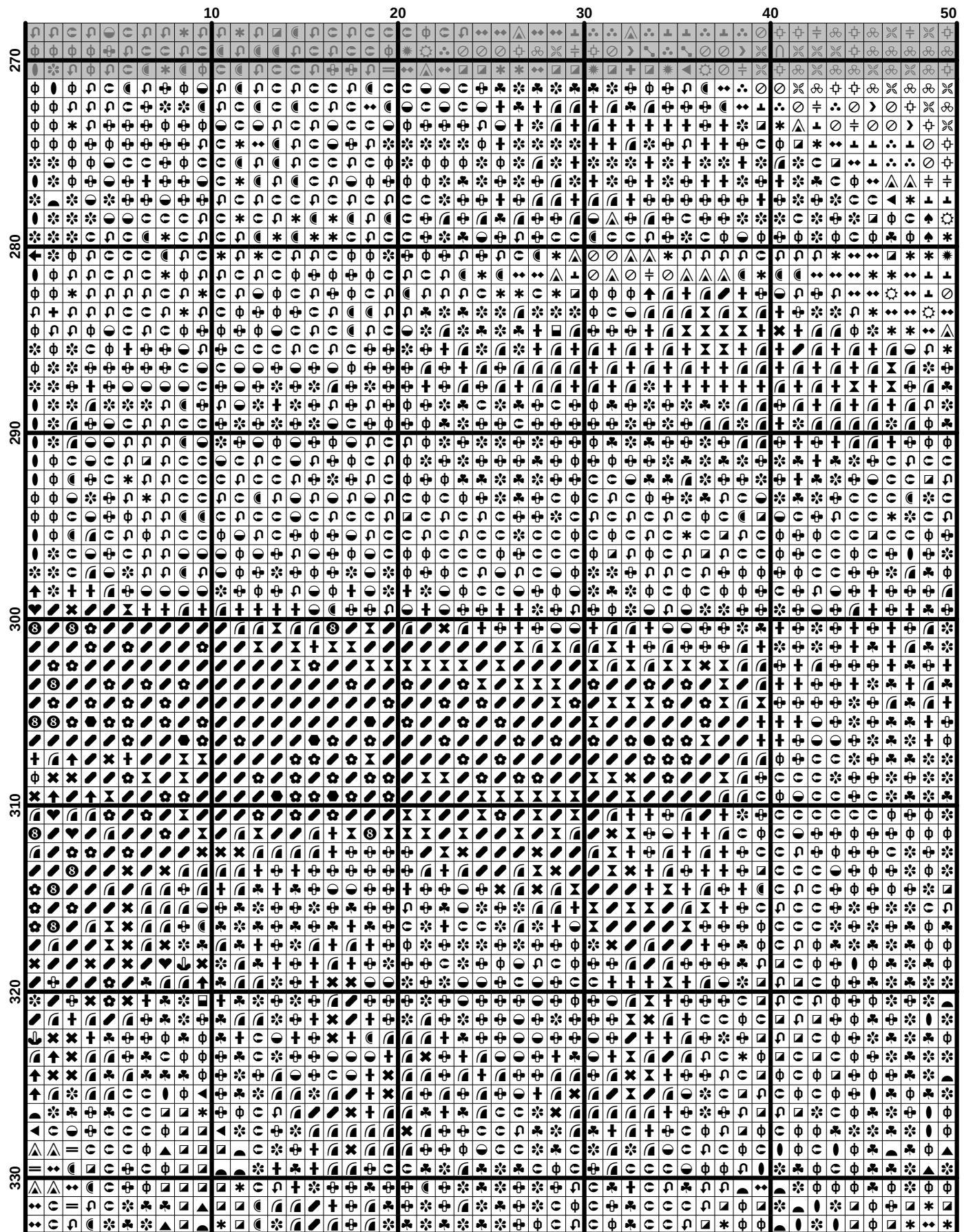
$$(46) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

(48)









	50	60	70	80	90
270	+	+	+	+	+
280	+	+	+	+	+
290	+	+	+	+	+
300	+	+	+	+	+
310	+	+	+	+	+
320	+	+	+	+	+
330	+	+	+	+	+

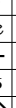
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