

1134 The Goldfish Seller



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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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The Goldfish Seller

Stitch Count	
Horizontal:	500
Vertical:	338

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:	91	35.67	62	24.1	80	31.21	54	21.09	71	27.75	48	18.75
Including Margins:	107	42	78	31	96	38	70	28	87	34	64	25
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	127	49.93	86	33.74	106	41.61	72	28.11	53	20.8	36	14.05
Including Margins:	143	56	102	40	122	48	88	35	69	27	52	21
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	50	19.97	34	13.49	49	19.2	33	12.97	47	18.49	32	12.49
Including Margins:	66	26	50	20	65	26	49	19	63	25	48	19
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	45	17.83	31	12.05	42	16.64	28	11.24	39	15.6	27	10.54
Including Margins:	61	24	47	19	58	23	44	18	55	22	43	17

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
↑	300	Mahogany-VY DK
✦	301	Mahogany-MD
■	310	Black
×	371	Mustard
⊕	400	Mahogany-DK
⋈	420	Hazelnut Brown-DK
α	422	Hazelnut Brown-LT
♣	433	Brown-MD
⌘	435	Brown-VY LT
∴	436	Tan
◦	445	Lemon-LT
●	500	Blue Green-VY DK
⊕	502	Blue Green
⬆	520	Fern Green-DK
	522	Fern Green
φ	561	Jade-VY DK
*	580	Moss Green-DK
⓪	581	Moss Green
♠	611	Drab Brown
∇	612	Drab Brown-LT
►	632	Desert Sand-UL VY DK
)	676	Old Gold-LT
δ	677	Old Gold-VY LT
⊞	680	Old Gold-DK
≡	704	Chartreuse-BRT
↘	721	Orange Spice-MD
○	725	Topaz
⊞	726	Topaz-LT
⋈	729	Old Gold-MD
⌘	730	Olive Green-VY DK
⊞	732	Olive Green
↓	733	Olive Green-MD
⊞	734	Olive Green-LT
•	743	Yellow-MD
∞	744	Yellow-Pale
u	746	Off White
▲	780	Topaz-UL VY DK
⦿	801	Coffee Brown-DK
▼	829	Golden Olive-VY DK
↘	831	Golden Olive-MD

↘	832	Golden Olive
↔	834	Golden Olive-VY LT
⦿	898	Coffee Brown-VY DK
⓪	920	Copper-MD
✕	924	Gray Green--VY DK
●	934	Black Avocado Green
♣	935	Avocado Green-DK
♣	936	Avocado Green-VY DK
■	937	Avocado Green-MD
⦿	938	Coffee Brown-UL DK
⊕	975	Golden Brown-DK
#	976	Golden Brown-MD
♣	977	Golden Brown-LT
⓪	991	Aquamarine-DK
⦿	3011	Khaki Green-DK
◊	3013	Khaki Green-LT
✕	3021	Brown Gray-VY DK
♥	3031	Mocha Brown-VY DK
♠	3045	Yellow Beige-DK
↔	3046	Yellow Beige-MD
⌘	3047	Yellow Beige-LT
⦿	3052	Green Gray-MD
	3053	Green Gray
⌘	3078	Golden Yellow-VY LT
✕	3346	Hunter Green
♠	3348	Yellow Green-LT
■	3371	Black Brown
⦿	3776	Mahogany-LT
♣	3777	Terra Cotta-VY DK
◆	3799	Pewter Gray-VY DK
✱	3809	Turquoise-VY DK
❖	3815	Celadon Green-DK
⊞	3819	Moss Green-LT
9	3820	Straw-DK
(3822	Straw-LT
«	3823	Yellow-UL Pale
◀	3826	Golden Brown
△	3827	Golden Brown-Pale
▲	3847	Teal Green-DK
↘	3848	Teal Green-MD
H	3853	Autumn Gold-DK
+	3854	Autumn Gold-MD

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
▲	3011	Khaki Green-DK	3346	Hunter Green
►	580	Moss Green-DK	3011	Khaki Green-DK
⬆	3031	Mocha Brown-VY DK	936	Avocado Green-VY DK
✦	301	Mahogany-MD	420	Hazelnut Brown-DK
⋈	420	Hazelnut Brown-DK	434	Brown-LT
Δ	420	Hazelnut Brown-DK	435	Brown-VY LT

▲	435	Brown-VY LT	976	Golden Brown-MD
△	743	Yellow-MD	744	Yellow-Pale
▲	831	Golden Olive-MD	434	Brown-LT
●	801	Coffee Brown-DK	830	Golden Olive-DK
◁	976	Golden Brown-MD	977	Golden Brown-LT
1	3823	Yellow-UL Pale	746	Off White
☼	934	Black Avocado Green	935	Avocado Green-DK
?	935	Avocado Green-DK	936	Avocado Green-VY DK
☾	3011	Khaki Green-DK	3021	Brown Gray-VY DK
○	301	Mahogany-MD	975	Golden Brown-DK
⬇	611	Drab Brown	632	Desert Sand-UL VY DK
✱	936	Avocado Green-VY DK	898	Coffee Brown-VY DK
☼	830	Golden Olive-DK	831	Golden Olive-MD
+	3011	Khaki Green-DK	3781	Mocha Brown-DK
■	580	Moss Green-DK	730	Olive Green-VY DK
◎	3346	Hunter Green	645	Beaver Gray-VY DK
➔	520	Fern Green-DK	935	Avocado Green-DK
○	3011	Khaki Green-DK	3052	Green Gray-MD
⬆	470	Avocado Green-LT	611	Drab Brown
×	3011	Khaki Green-DK	522	Fern Green
⌘	704	Chartreuse-BRT	371	Mustard
⊕	611	Drab Brown	371	Mustard
⌘	680	Old Gold-DK	3826	Golden Brown
7	734	Olive Green-LT	3045	Yellow Beige-DK
⌘	834	Golden Olive-VY LT	436	Tan
✱	434	Brown-LT	680	Old Gold-DK
⌘	420	Hazelnut Brown-DK	371	Mustard
⌘	976	Golden Brown-MD	371	Mustard
➤	680	Old Gold-DK	780	Topaz-UL VY DK
⊕	733	Olive Green-MD	831	Golden Olive-MD
⌘	733	Olive Green-MD	420	Hazelnut Brown-DK
⌘	580	Moss Green-DK	898	Coffee Brown-VY DK
↓	400	Mahogany-DK	801	Coffee Brown-DK
⌘	301	Mahogany-MD	920	Copper-MD
☼	830	Golden Olive-DK	470	Avocado Green-LT
◎	831	Golden Olive-MD	470	Avocado Green-LT
⌘	831	Golden Olive-MD	832	Golden Olive
⌘	829	Golden Olive-VY DK	470	Avocado Green-LT
⌘	3011	Khaki Green-DK	470	Avocado Green-LT
✓	611	Drab Brown	704	Chartreuse-BRT
⌘	3011	Khaki Green-DK	937	Avocado Green-MD
●	898	Coffee Brown-VY DK	938	Coffee Brown-UL DK
⊕	611	Drab Brown	3011	Khaki Green-DK
⊕	435	Brown-VY LT	301	Mahogany-MD
⌘	920	Copper-MD	975	Golden Brown-DK
⌘	832	Golden Olive	3011	Khaki Green-DK
⌘	704	Chartreuse-BRT	734	Olive Green-LT
—	612	Drab Brown-LT	704	Chartreuse-BRT
⌘	832	Golden Olive	733	Olive Green-MD
●	561	Jade-VY DK	3815	Celadon Green-DK
◀	645	Beaver Gray-VY DK	937	Avocado Green-MD
=	3346	Hunter Green	3051	Green Gray-DK
⌘	725	Topaz	834	Golden Olive-VY LT
/	436	Tan	725	Topaz
L	3827	Golden Brown-Pale	743	Yellow-MD
◇	3819	Moss Green-LT	833	Golden Olive-LT
3	3819	Moss Green-LT	733	Olive Green-MD
5	3819	Moss Green-LT	3852	Straw-VY DK
m	833	Golden Olive-LT	3852	Straw-VY DK

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⚡	733	Olive Green-MD	3852	Straw-VY DK
⚡	831	Golden Olive-MD	581	Moss Green
⚡	733	Olive Green-MD	581	Moss Green
//	435	Brown-VY LT	632	Desert Sand-UL VY DK
..	436	Tan	3776	Mahogany-LT
☪	3776	Mahogany-LT	3826	Golden Brown
☪	3826	Golden Brown	301	Mahogany-MD
☪	976	Golden Brown-MD	3776	Mahogany-LT
☪	371	Mustard	435	Brown-VY LT
☪	434	Brown-LT	975	Golden Brown-DK
☪	470	Avocado Green-LT	730	Olive Green-VY DK
☪	420	Hazelnut Brown-DK	920	Copper-MD
☪	726	Topaz-LT	3819	Moss Green-LT
☪	730	Olive Green-VY DK	3021	Brown Gray-VY DK
★	3826	Golden Brown	920	Copper-MD
☪	920	Copper-MD	721	Orange Spice-MD
☪	830	Golden Olive-DK	869	Hazelnut Brown-VY DK
☪	920	Copper-MD	976	Golden Brown-MD
☪	830	Golden Olive-DK	371	Mustard
☪	436	Tan	977	Golden Brown-LT
✓	371	Mustard	733	Olive Green-MD
☪	3814	Aquamarine	991	Aquamarine-DK
☪	924	Gray Green--VY DK	3847	Teal Green-DK
☪	977	Golden Brown-LT	3776	Mahogany-LT
☪	976	Golden Brown-MD	3826	Golden Brown
☪	422	Hazelnut Brown-LT	744	Yellow-Pale
☪	744	Yellow-Pale	677	Old Gold-VY LT
☪	434	Brown-LT	3045	Yellow Beige-DK
☪	520	Fern Green-DK	561	Jade-VY DK
♠	3815	Celadon Green-DK	520	Fern Green-DK
☪	729	Old Gold-MD	3827	Golden Brown-Pale
4	729	Old Gold-MD	676	Old Gold-LT
☪	422	Hazelnut Brown-LT	445	Lemon-LT
☪	676	Old Gold-LT	445	Lemon-LT
☪	869	Hazelnut Brown-VY DK	975	Golden Brown-DK
☪	677	Old Gold-VY LT	3046	Yellow Beige-MD
☪	733	Olive Green-MD	3046	Yellow Beige-MD
☪	371	Mustard	729	Old Gold-MD
☪	3776	Mahogany-LT	729	Old Gold-MD
☪	3348	Yellow Green-LT	3045	Yellow Beige-DK
=	3046	Yellow Beige-MD	613	Drab Brown-VY LT
☪	677	Old Gold-VY LT	3348	Yellow Green-LT
☪	3047	Yellow Beige-LT	3348	Yellow Green-LT
☪	3819	Moss Green-LT	3820	Straw-DK
☪	435	Brown-VY LT	3826	Golden Brown
☪	743	Yellow-MD	445	Lemon-LT
☆	832	Golden Olive	3819	Moss Green-LT
☪	3854	Autumn Gold-MD	676	Old Gold-LT
☪	3046	Yellow Beige-MD	3348	Yellow Green-LT
☪	801	Coffee Brown-DK	580	Moss Green-DK
☪	3776	Mahogany-LT	301	Mahogany-MD
☪	3852	Straw-VY DK	680	Old Gold-DK
☪	420	Hazelnut Brown-DK	704	Chartreuse-BRT

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	
300	Mahogany-VY DK	118	46	112	44	101	39
301	Mahogany-MD	107	42	102	40	92	36
310	Black	628	247	598	235	538	211
371	Mustard	1023	402	974	383	877	345
400	Mahogany-DK	100	39	95	37	86	33
420	Hazelnut Brown-DK	928	365	884	348	795	312
422	Hazelnut Brown-LT	170	66	162	63	145	57
433	Brown-MD	171	67	163	64	146	57
434	Brown-LT	516	203	491	193	442	174
435	Brown-VY LT	324	127	309	121	278	109
436	Tan	290	114	276	108	248	97
445	Lemon-LT	357	140	340	133	306	120
470	Avocado Green-LT	872	343	830	326	747	294
500	Blue Green-VY DK	81	31	77	30	70	27
502	Blue Green	15	5	15	5	13	5
520	Fern Green-DK	376	148	358	140	322	126
522	Fern Green	70	27	67	26	60	23
561	Jade-VY DK	15	5	14	5	13	5
580	Moss Green-DK	1444	568	1375	541	1237	487
581	Moss Green	509	200	485	190	437	172
611	Drab Brown	602	237	573	225	516	203
612	Drab Brown-LT	158	62	151	59	135	53
613	Drab Brown-VY LT	31	12	29	11	26	10
632	Desert Sand-UL VY DK	121	47	115	45	104	40
645	Beaver Gray-VY DK	102	40	97	38	87	34
676	Old Gold-LT	509	200	485	190	436	171
677	Old Gold-VY LT	437	172	416	163	374	147
680	Old Gold-DK	381	150	363	142	327	128
704	Chartreuse-BRT	446	175	424	166	382	150
721	Orange Spice-MD	9	3	9	3	8	3
725	Topaz	342	134	326	128	293	115
726	Topaz-LT	66	25	63	24	56	22
729	Old Gold-MD	654	257	623	245	561	220
730	Olive Green-VY DK	1291	508	1229	483	1106	435
732	Olive Green	295	116	281	110	253	99
733	Olive Green-MD	2126	837	2025	797	1822	717
734	Olive Green-LT	269	105	257	101	231	90
743	Yellow-MD	469	184	447	175	402	158
744	Yellow-Pale	1500	590	1428	562	1285	505
746	Off White	242	95	231	90	208	81
780	Topaz-UL VY DK	129	50	123	48	111	43
801	Coffee Brown-DK	1129	444	1075	423	968	381
829	Golden Olive-VY DK	592	233	563	221	507	199
830	Golden Olive-DK	982	386	935	368	842	331
831	Golden Olive-MD	1430	562	1362	536	1225	482
832	Golden Olive	1212	477	1154	454	1039	409
833	Golden Olive-LT	172	67	164	64	148	58
834	Golden Olive-VY LT	414	162	395	155	355	139
869	Hazelnut Brown-VY DK	481	189	458	180	413	162
898	Coffee Brown-VY DK	1831	720	1744	686	1570	618
920	Copper-MD	67	26	64	25	57	22
924	Gray Green--VY DK	16	6	16	6	14	5
934	Black Avocado Green	2333	918	2222	874	1999	787
935	Avocado Green-DK	1600	629	1524	600	1371	539

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936	Avocado Green-VY DK	1645	647	1567	616	1410	555
937	Avocado Green-MD	509	200	485	190	436	171
938	Coffee Brown-UL DK	1435	564	1367	538	1230	484
975	Golden Brown-DK	308	121	293	115	264	103
976	Golden Brown-MD	202	79	192	75	173	68
977	Golden Brown-LT	97	38	92	36	83	32
991	Aquamarine-DK	4	1	4	1	3	1
3011	Khaki Green-DK	2103	827	2003	788	1803	709
3013	Khaki Green-LT	97	38	92	36	83	32
3021	Brown Gray-VY DK	1192	469	1136	447	1022	402
3031	Mocha Brown-VY DK	1736	683	1653	650	1488	585
3045	Yellow Beige-DK	336	132	320	125	288	113
3046	Yellow Beige-MD	419	164	399	157	359	141
3047	Yellow Beige-LT	62	24	59	23	53	20
3051	Green Gray-DK	63	24	60	23	54	21
3052	Green Gray-MD	137	53	131	51	118	46
3053	Green Gray	38	14	36	14	32	12
3078	Golden Yellow-VY LT	727	286	692	272	623	245
3346	Hunter Green	274	107	261	102	235	92
3348	Yellow Green-LT	333	131	317	124	286	112
3371	Black Brown	1525	600	1453	572	1307	514
3776	Mahogany-LT	70	27	67	26	60	23
3777	Terra Cotta-VY DK	4	1	4	1	3	1
3781	Mocha Brown-DK	201	79	191	75	172	67
3799	Pewter Gray-VY DK	54	21	51	20	46	18
3809	Turquoise-VY DK	2	1	2	1	2	1
3814	Aquamarine	1	1	1	1	1	1
3815	Celadon Green-DK	34	13	33	12	29	11
3819	Moss Green-LT	1513	595	1441	567	1297	510
3820	Straw-DK	300	118	286	112	257	101
3822	Straw-LT	74	29	70	27	63	24
3823	Yellow-UL Pale	660	259	629	247	566	222
3826	Golden Brown	99	38	94	37	85	33
3827	Golden Brown-Pale	254	100	241	94	217	85
3847	Teal Green-DK	14	5	13	5	12	4
3848	Teal Green-MD	2	1	2	1	2	1
3852	Straw-VY DK	407	160	388	152	349	137
3853	Autumn Gold-DK	6	2	5	1	5	1
3854	Autumn Gold-MD	157	61	149	58	134	52

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
300	Mahogany-VY DK	182	70	152	59	76	29
301	Mahogany-MD	166	65	138	54	69	27
310	Black	968	380	807	317	404	158
371	Mustard	1579	621	1316	518	658	259
400	Mahogany-DK	155	59	129	50	65	25
420	Hazelnut Brown-DK	1431	562	1193	468	596	234
422	Hazelnut Brown-LT	261	103	218	86	109	43
433	Brown-MD	263	103	219	86	110	43
434	Brown-LT	796	313	663	261	332	131
435	Brown-VY LT	500	196	417	164	209	82
436	Tan	446	175	372	146	186	73
445	Lemon-LT	551	216	459	180	230	90
470	Avocado Green-LT	1345	529	1121	441	560	221

500	Blue Green-VY DK	126	49	105	41	53	20
502	Blue Green	23	9	20	8	10	4
520	Fern Green-DK	580	227	483	189	242	95
522	Fern Green	108	41	90	35	45	17
561	Jade-VY DK	23	9	20	8	10	4
580	Moss Green-DK	2227	877	1856	731	928	365
581	Moss Green	787	310	656	258	328	129
611	Drab Brown	929	365	774	305	387	152
612	Drab Brown-LT	243	95	203	80	101	40
613	Drab Brown-VY LT	47	18	39	15	20	8
632	Desert Sand-UL VY DK	187	72	156	60	78	30
645	Beaver Gray-VY DK	157	61	131	51	65	26
676	Old Gold-LT	785	308	654	257	327	128
677	Old Gold-VY LT	673	265	561	221	281	110
680	Old Gold-DK	589	230	491	192	245	96
704	Chartreuse-BRT	688	270	573	225	287	113
721	Orange Spice-MD	14	5	12	5	6	2
725	Topaz	527	207	440	173	220	86
726	Topaz-LT	101	40	84	33	42	17
729	Old Gold-MD	1010	396	842	330	421	165
730	Olive Green-VY DK	1991	783	1659	653	830	326
732	Olive Green	455	178	380	149	190	74
733	Olive Green-MD	3280	1291	2733	1076	1367	538
734	Olive Green-LT	416	162	347	135	173	68
743	Yellow-MD	724	284	603	237	302	119
744	Yellow-Pale	2313	909	1928	758	964	379
746	Off White	374	146	312	122	156	61
780	Topaz-UL VY DK	200	77	167	65	83	32
801	Coffee Brown-DK	1742	686	1452	572	726	286
829	Golden Olive-VY DK	913	358	761	299	380	149
830	Golden Olive-DK	1516	596	1263	497	632	248
831	Golden Olive-MD	2205	868	1838	723	919	362
832	Golden Olive	1870	736	1559	614	779	307
833	Golden Olive-LT	266	104	222	87	111	44
834	Golden Olive-VY LT	639	250	533	209	266	104
869	Hazelnut Brown-VY DK	743	292	620	243	310	122
898	Coffee Brown-VY DK	2826	1112	2355	927	1178	464
920	Copper-MD	103	40	86	33	43	17
924	Gray Green--VY DK	25	9	21	8	11	4
934	Black Avocado Green	3598	1417	2999	1181	1499	590
935	Avocado Green-DK	2468	970	2057	809	1028	404
936	Avocado Green-VY DK	2538	999	2115	833	1058	416
937	Avocado Green-MD	785	308	654	257	327	128
938	Coffee Brown-UL DK	2214	871	1845	726	923	363
975	Golden Brown-DK	475	185	396	155	198	77
976	Golden Brown-MD	311	122	260	102	130	51
977	Golden Brown-LT	149	58	125	48	62	24
991	Aquamarine-DK	5	2	5	2	2	1
3011	Khaki Green-DK	3245	1276	2705	1064	1352	532
3013	Khaki Green-LT	149	58	125	48	62	24
3021	Brown Gray-VY DK	1840	724	1533	603	767	302
3031	Mocha Brown-VY DK	2678	1053	2232	878	1116	439
3045	Yellow Beige-DK	518	203	432	170	216	85
3046	Yellow Beige-MD	646	254	539	212	269	106
3047	Yellow Beige-LT	95	36	80	30	40	15
3051	Green Gray-DK	97	38	81	32	41	16
3052	Green Gray-MD	212	83	177	69	89	35
3053	Green Gray	58	22	48	18	24	9
3078	Golden Yellow-VY LT	1121	441	935	368	467	184

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3346	Hunter Green	423	166	353	138	176	69
3348	Yellow Green-LT	515	202	429	168	215	84
3371	Black Brown	2353	925	1961	771	980	386
3776	Mahogany-LT	108	41	90	35	45	17
3777	Terra Cotta-VY DK	5	2	5	2	2	1
3781	Mocha Brown-DK	310	121	258	101	129	50
3799	Pewter Gray-VY DK	83	32	69	27	35	14
3809	Turquoise-VY DK	4	2	3	2	2	1
3814	Aquamarine	2	2	2	2	1	1
3815	Celadon Green-DK	52	20	44	17	22	8
3819	Moss Green-LT	2335	918	1946	765	973	383
3820	Straw-DK	463	182	386	152	193	76
3822	Straw-LT	113	43	95	36	47	18
3823	Yellow-UL Pale	1019	400	849	333	425	167
3826	Golden Brown	153	59	128	50	64	25
3827	Golden Brown-Pale	391	153	326	128	163	64
3847	Teal Green-DK	22	7	18	6	9	3
3848	Teal Green-MD	4	2	3	2	2	1
3852	Straw-VY DK	628	247	524	206	262	103
3853	Autumn Gold-DK	9	2	8	2	4	1
3854	Autumn Gold-MD	241	94	201	78	101	39

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
300	Mahogany-VY DK	73	28	70	27	67	26
301	Mahogany-MD	66	26	64	25	61	24
310	Black	387	152	372	146	359	141
371	Mustard	631	248	607	239	585	230
400	Mahogany-DK	62	24	60	23	57	22
420	Hazelnut Brown-DK	572	225	550	216	530	208
422	Hazelnut Brown-LT	104	41	100	39	97	38
433	Brown-MD	105	41	101	39	97	38
434	Brown-LT	318	125	306	120	295	116
435	Brown-VY LT	200	78	192	75	185	73
436	Tan	179	70	172	67	165	65
445	Lemon-LT	220	86	212	83	204	80
470	Avocado Green-LT	538	212	517	204	498	196
500	Blue Green-VY DK	50	19	48	19	47	18
502	Blue Green	9	4	9	3	9	3
520	Fern Green-DK	232	91	223	87	215	84
522	Fern Green	43	17	42	16	40	15
561	Jade-VY DK	9	4	9	3	9	3
580	Moss Green-DK	891	351	856	337	825	325
581	Moss Green	315	124	303	119	291	115
611	Drab Brown	372	146	357	141	344	135
612	Drab Brown-LT	97	38	93	37	90	35
613	Drab Brown-VY LT	19	7	18	7	17	7
632	Desert Sand-UL VY DK	75	29	72	28	69	27
645	Beaver Gray-VY DK	63	24	60	24	58	23
676	Old Gold-LT	314	123	302	118	291	114
677	Old Gold-VY LT	269	106	259	102	249	98
680	Old Gold-DK	235	92	226	89	218	85
704	Chartreuse-BRT	275	108	264	104	255	100
721	Orange Spice-MD	6	2	6	2	5	2
725	Topaz	211	83	203	80	195	77

726	Topaz-LT	40	16	39	15	37	15
729	Old Gold-MD	404	158	388	152	374	147
730	Olive Green-VY DK	796	313	766	301	737	290
732	Olive Green	182	71	175	69	169	66
733	Olive Green-MD	1312	516	1261	496	1215	478
734	Olive Green-LT	166	65	160	62	154	60
743	Yellow-MD	289	114	278	109	268	105
744	Yellow-Pale	925	364	890	350	857	337
746	Off White	150	58	144	56	139	54
780	Topaz-UL VY DK	80	31	77	30	74	29
801	Coffee Brown-DK	697	274	670	264	645	254
829	Golden Olive-VY DK	365	143	351	138	338	133
830	Golden Olive-DK	606	238	583	229	561	221
831	Golden Olive-MD	882	347	848	334	817	321
832	Golden Olive	748	294	719	283	693	273
833	Golden Olive-LT	107	42	102	40	99	39
834	Golden Olive-VY LT	256	100	246	96	237	93
869	Hazelnut Brown-VY DK	297	117	286	112	275	108
898	Coffee Brown-VY DK	1130	445	1087	428	1047	412
920	Copper-MD	41	16	39	15	38	15
924	Gray Green--VY DK	10	4	10	3	9	3
934	Black Avocado Green	1439	567	1384	545	1333	525
935	Avocado Green-DK	987	388	949	373	914	359
936	Avocado Green-VY DK	1015	400	976	384	940	370
937	Avocado Green-MD	314	123	302	118	291	114
938	Coffee Brown-UL DK	886	348	852	335	820	323
975	Golden Brown-DK	190	74	183	71	176	69
976	Golden Brown-MD	125	49	120	47	115	45
977	Golden Brown-LT	60	23	57	22	55	21
991	Aquamarine-DK	2	1	2	1	2	1
3011	Khaki Green-DK	1298	510	1248	491	1202	473
3013	Khaki Green-LT	60	23	57	22	55	21
3021	Brown Gray-VY DK	736	289	708	278	681	268
3031	Mocha Brown-VY DK	1071	421	1030	405	992	390
3045	Yellow Beige-DK	207	81	199	78	192	75
3046	Yellow Beige-MD	258	102	249	98	239	94
3047	Yellow Beige-LT	38	14	37	14	35	13
3051	Green Gray-DK	39	15	37	15	36	14
3052	Green Gray-MD	85	33	82	32	79	31
3053	Green Gray	23	9	22	8	21	8
3078	Golden Yellow-VY LT	449	176	431	170	415	163
3346	Hunter Green	169	66	163	64	157	61
3348	Yellow Green-LT	206	81	198	78	191	75
3371	Black Brown	941	370	905	356	871	343
3776	Mahogany-LT	43	17	42	16	40	15
3777	Terra Cotta-VY DK	2	1	2	1	2	1
3781	Mocha Brown-DK	124	48	119	46	115	45
3799	Pewter Gray-VY DK	33	13	32	12	31	12
3809	Turquoise-VY DK	1	1	1	1	1	1
3814	Aquamarine	1	1	1	1	1	1
3815	Celadon Green-DK	21	8	20	8	19	7
3819	Moss Green-LT	934	367	898	353	865	340
3820	Straw-DK	185	73	178	70	171	67
3822	Straw-LT	45	17	44	17	42	16
3823	Yellow-UL Pale	408	160	392	154	377	148
3826	Golden Brown	61	24	59	23	57	22
3827	Golden Brown-Pale	156	61	150	59	145	57
3847	Teal Green-DK	9	3	8	3	8	3
3848	Teal Green-MD	1	1	1	1	1	1

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3852	Straw-VY DK	251	99	242	95	233	91
3853	Autumn Gold-DK	4	1	3	1	3	1
3854	Autumn Gold-MD	96	37	93	36	89	35

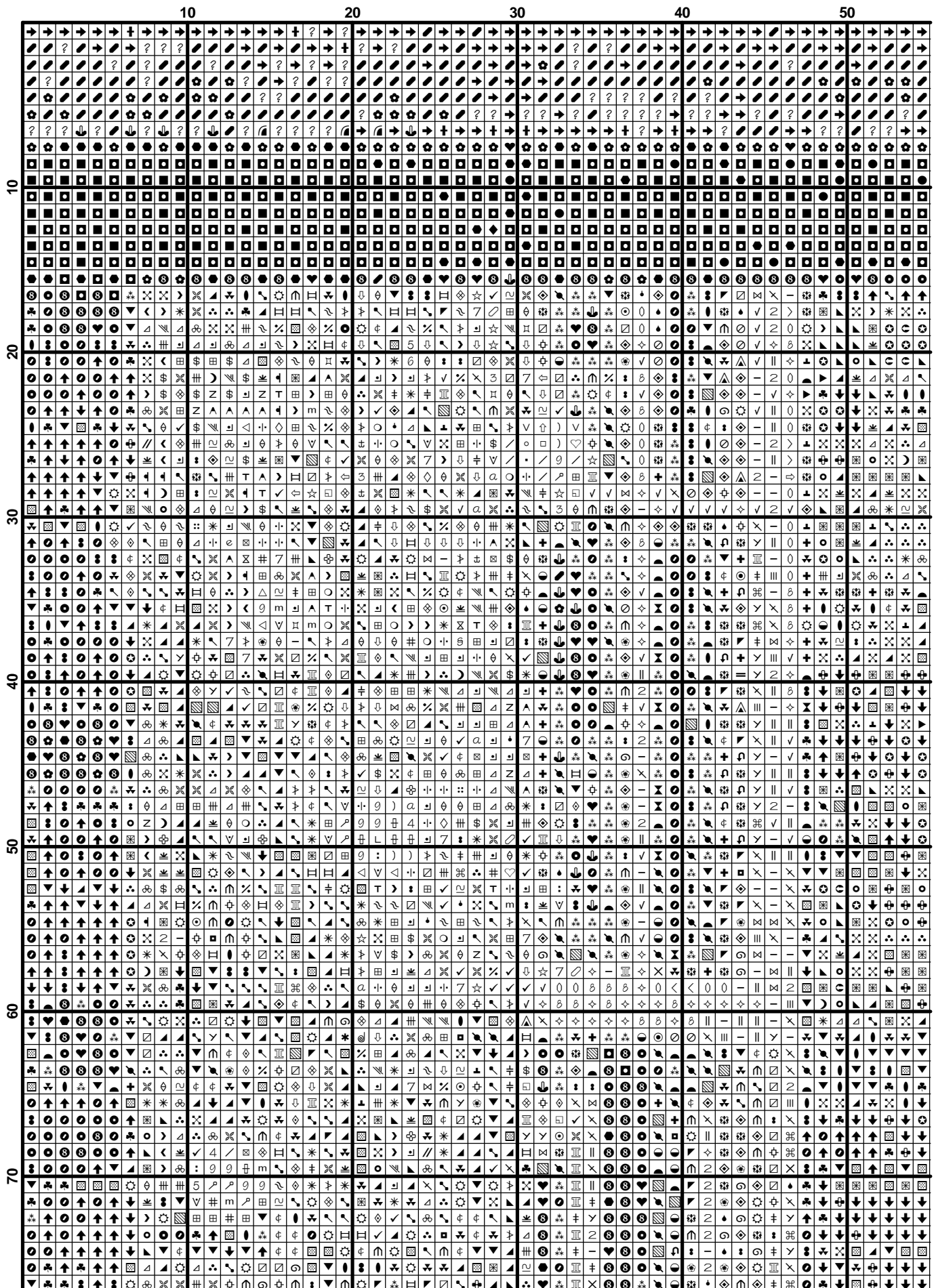
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
300	Mahogany-VY DK	65	25	61	23	57	22
301	Mahogany-MD	59	23	55	22	52	20
310	Black	346	136	323	127	303	119
371	Mustard	564	222	526	207	493	194
400	Mahogany-DK	55	21	52	20	48	19
420	Hazelnut Brown-DK	511	201	477	187	447	176
422	Hazelnut Brown-LT	93	37	87	34	82	32
433	Brown-MD	94	37	88	34	82	32
434	Brown-LT	284	112	265	104	249	98
435	Brown-VY LT	179	70	167	65	156	61
436	Tan	159	62	149	58	140	55
445	Lemon-LT	197	77	184	72	172	68
470	Avocado Green-LT	480	189	448	176	420	165
500	Blue Green-VY DK	45	17	42	16	39	15
502	Blue Green	8	3	8	3	7	3
520	Fern Green-DK	207	81	193	76	181	71
522	Fern Green	39	15	36	14	34	13
561	Jade-VY DK	8	3	8	3	7	3
580	Moss Green-DK	795	313	742	292	696	274
581	Moss Green	281	111	262	103	246	97
611	Drab Brown	332	131	310	122	290	114
612	Drab Brown-LT	87	34	81	32	76	30
613	Drab Brown-VY LT	17	6	16	6	15	6
632	Desert Sand-UL VY DK	67	26	62	24	59	23
645	Beaver Gray-VY DK	56	22	52	20	49	19
676	Old Gold-LT	280	110	262	103	245	96
677	Old Gold-VY LT	240	95	224	88	210	83
680	Old Gold-DK	210	82	196	77	184	72
704	Chartreuse-BRT	246	96	229	90	215	84
721	Orange Spice-MD	5	2	5	2	5	2
725	Topaz	188	74	176	69	165	65
726	Topaz-LT	36	14	34	13	32	12
729	Old Gold-MD	361	141	337	132	316	124
730	Olive Green-VY DK	711	280	664	261	622	245
732	Olive Green	163	64	152	59	142	56
733	Olive Green-MD	1171	461	1093	430	1025	403
734	Olive Green-LT	149	58	139	54	130	51
743	Yellow-MD	258	102	241	95	226	89
744	Yellow-Pale	826	325	771	303	723	284
746	Off White	134	52	125	49	117	46
780	Topaz-UL VY DK	71	28	67	26	62	24
801	Coffee Brown-DK	622	245	581	229	545	214
829	Golden Olive-VY DK	326	128	304	119	285	112
830	Golden Olive-DK	541	213	505	199	474	186
831	Golden Olive-MD	788	310	735	289	689	271
832	Golden Olive	668	263	623	245	584	230
833	Golden Olive-LT	95	37	89	35	83	33
834	Golden Olive-VY LT	228	89	213	83	200	78
869	Hazelnut Brown-VY DK	266	104	248	97	232	91
898	Coffee Brown-VY DK	1009	397	942	371	883	348

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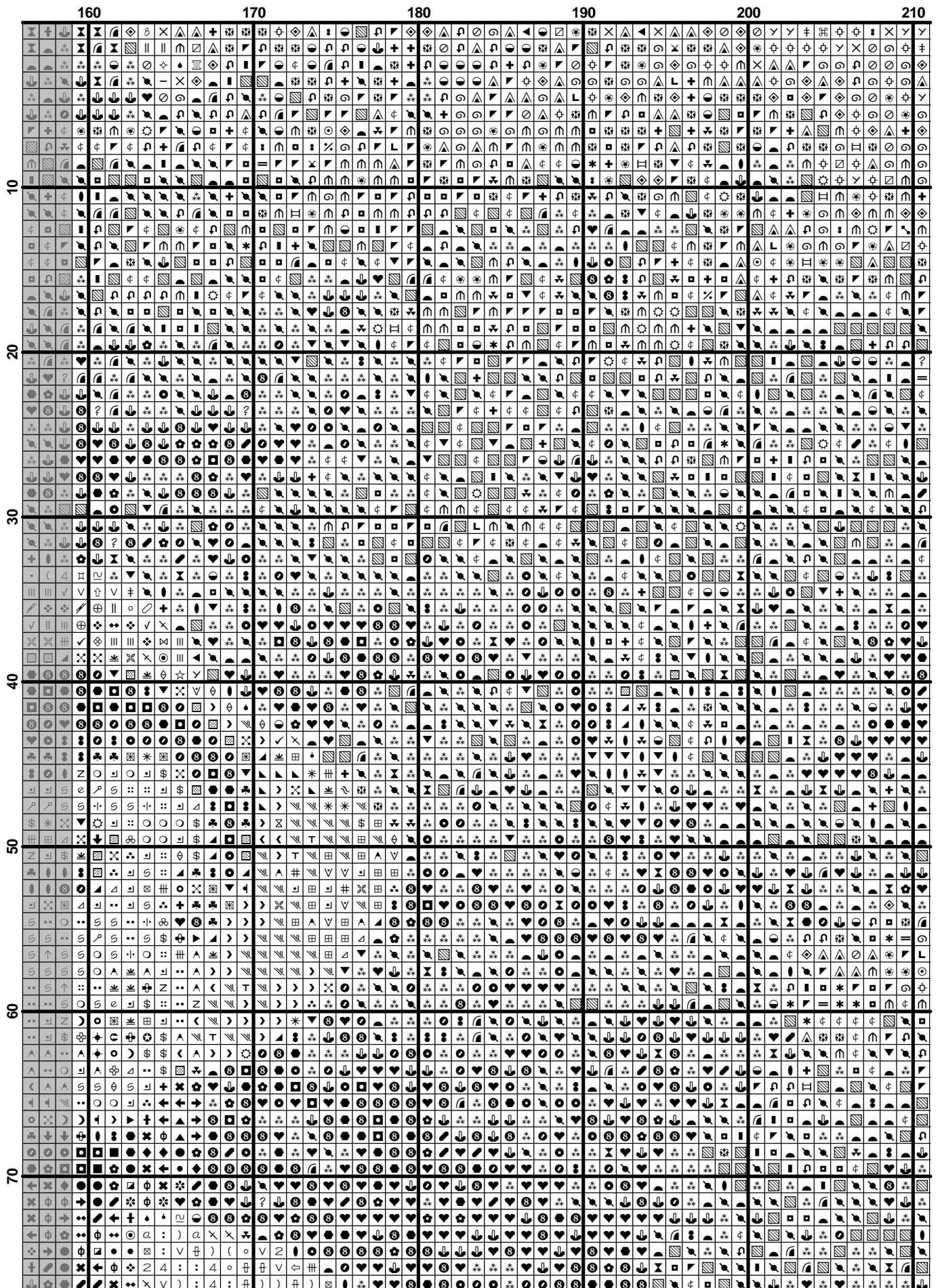
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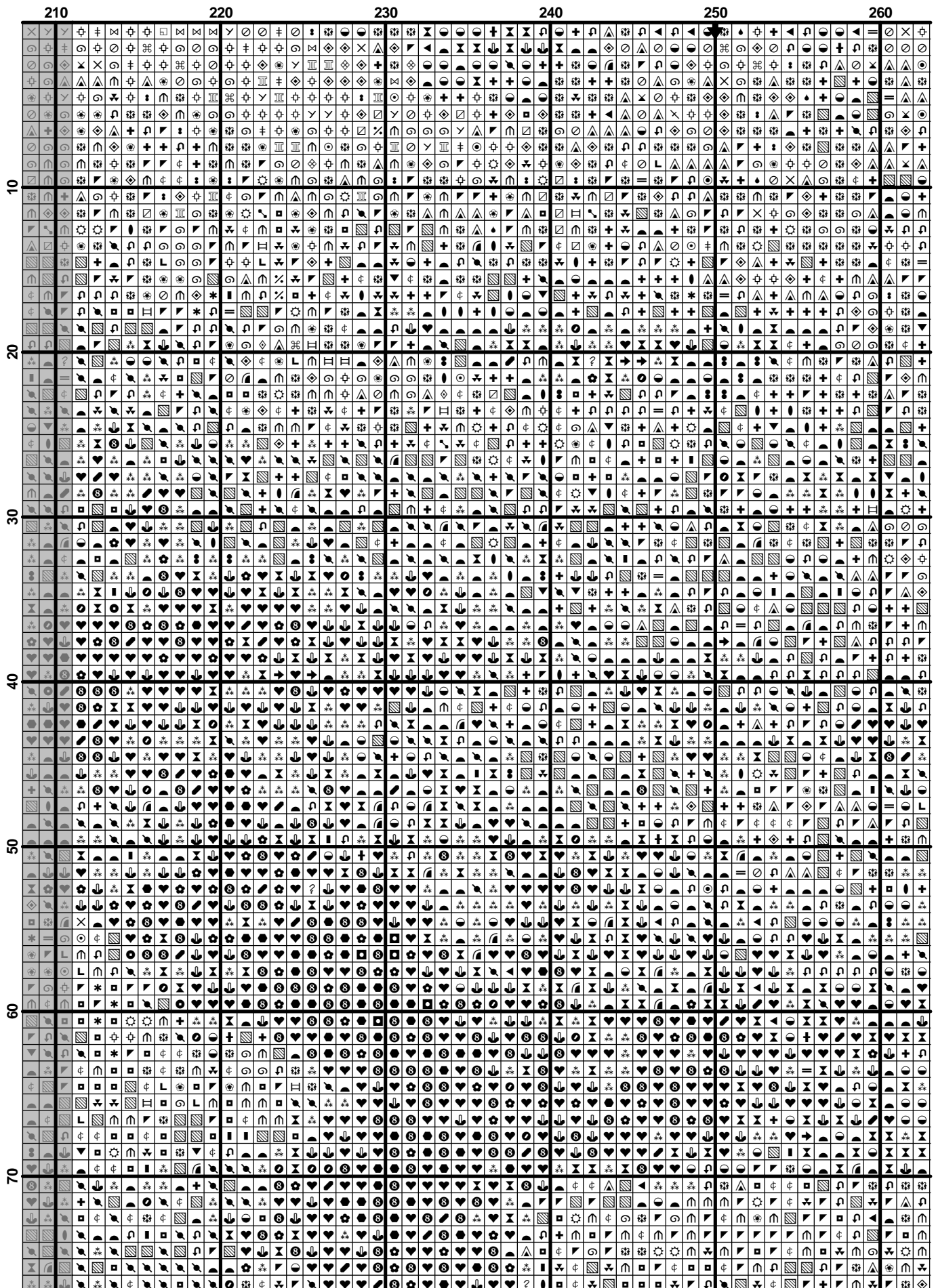
920	Copper-MD	37	14	34	13	32	12
924	Gray Green--VY DK	9	3	8	3	8	3
934	Black Avocado Green	1285	506	1199	472	1124	443
935	Avocado Green-DK	881	347	823	323	771	303
936	Avocado Green-VY DK	906	357	846	333	793	312
937	Avocado Green-MD	280	110	262	103	245	96
938	Coffee Brown-UL DK	791	311	738	290	692	272
975	Golden Brown-DK	170	66	158	62	149	58
976	Golden Brown-MD	111	44	104	41	97	38
977	Golden Brown-LT	53	21	50	19	47	18
991	Aquamarine-DK	2	1	2	1	2	1
3011	Khaki Green-DK	1159	456	1082	425	1014	399
3013	Khaki Green-LT	53	21	50	19	47	18
3021	Brown Gray-VY DK	657	258	613	241	575	226
3031	Mocha Brown-VY DK	957	376	893	351	837	329
3045	Yellow Beige-DK	185	73	173	68	162	64
3046	Yellow Beige-MD	231	91	215	85	202	79
3047	Yellow Beige-LT	34	13	32	12	30	11
3051	Green Gray-DK	35	14	32	13	30	12
3052	Green Gray-MD	76	30	71	28	66	26
3053	Green Gray	21	8	19	7	18	7
3078	Golden Yellow-VY LT	401	158	374	147	350	138
3346	Hunter Green	151	59	141	55	132	52
3348	Yellow Green-LT	184	72	172	67	161	63
3371	Black Brown	840	330	784	308	735	289
3776	Mahogany-LT	39	15	36	14	34	13
3777	Terra Cotta-VY DK	2	1	2	1	2	1
3781	Mocha Brown-DK	111	43	103	40	97	38
3799	Pewter Gray-VY DK	30	12	28	11	26	10
3809	Turquoise-VY DK	1	1	1	1	1	1
3814	Aquamarine	1	1	1	1	1	1
3815	Celadon Green-DK	19	7	17	7	16	6
3819	Moss Green-LT	834	328	778	306	730	287
3820	Straw-DK	165	65	154	61	145	57
3822	Straw-LT	41	15	38	14	35	14
3823	Yellow-UL Pale	364	143	340	133	318	125
3826	Golden Brown	55	21	51	20	48	19
3827	Golden Brown-Pale	140	55	130	51	122	48
3847	Teal Green-DK	8	3	7	2	7	2
3848	Teal Green-MD	1	1	1	1	1	1
3852	Straw-VY DK	224	88	209	82	196	77
3853	Autumn Gold-DK	3	1	3	1	3	1
3854	Autumn Gold-MD	86	33	80	31	75	29



[illegible]

$$(13) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

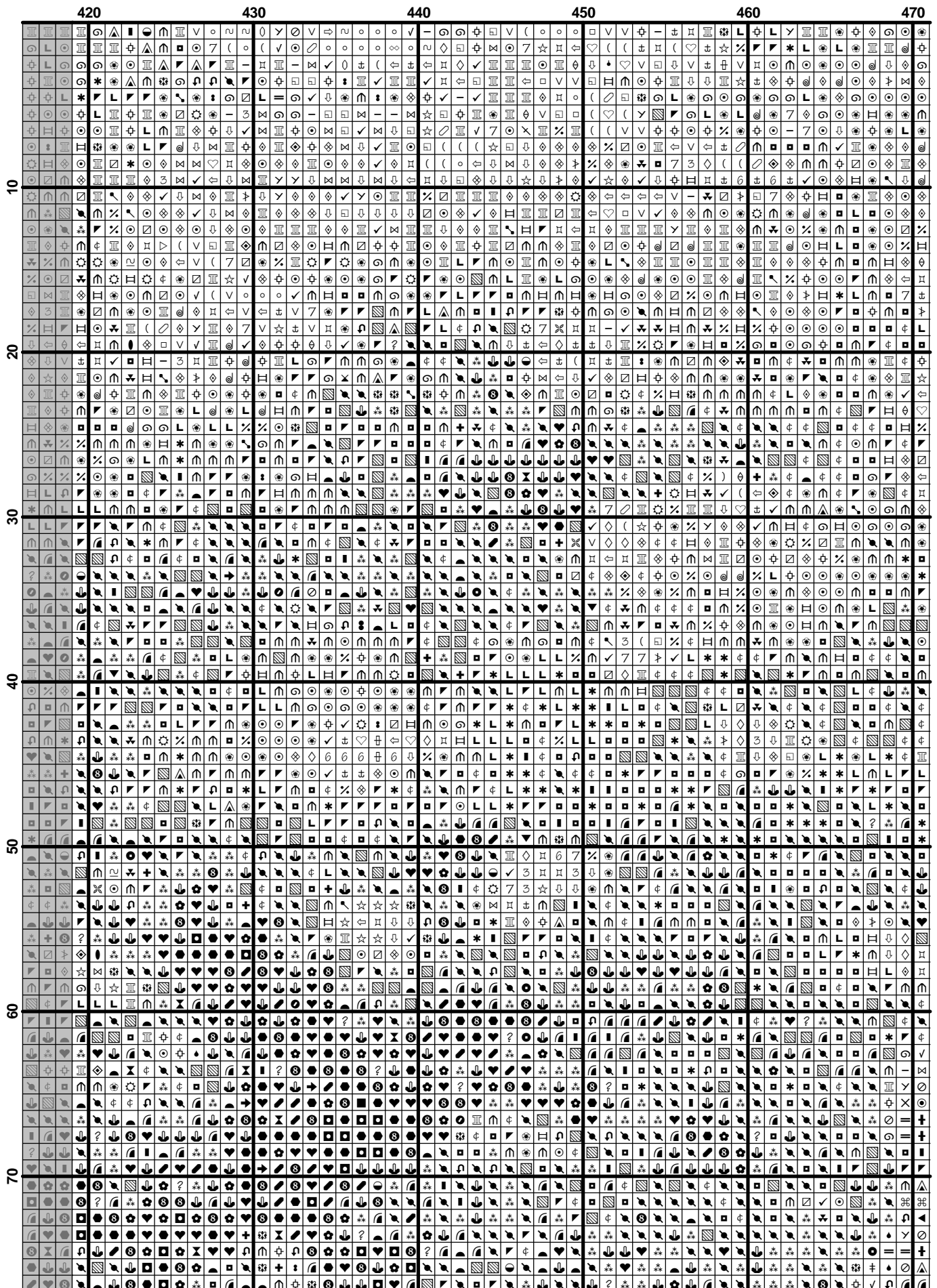


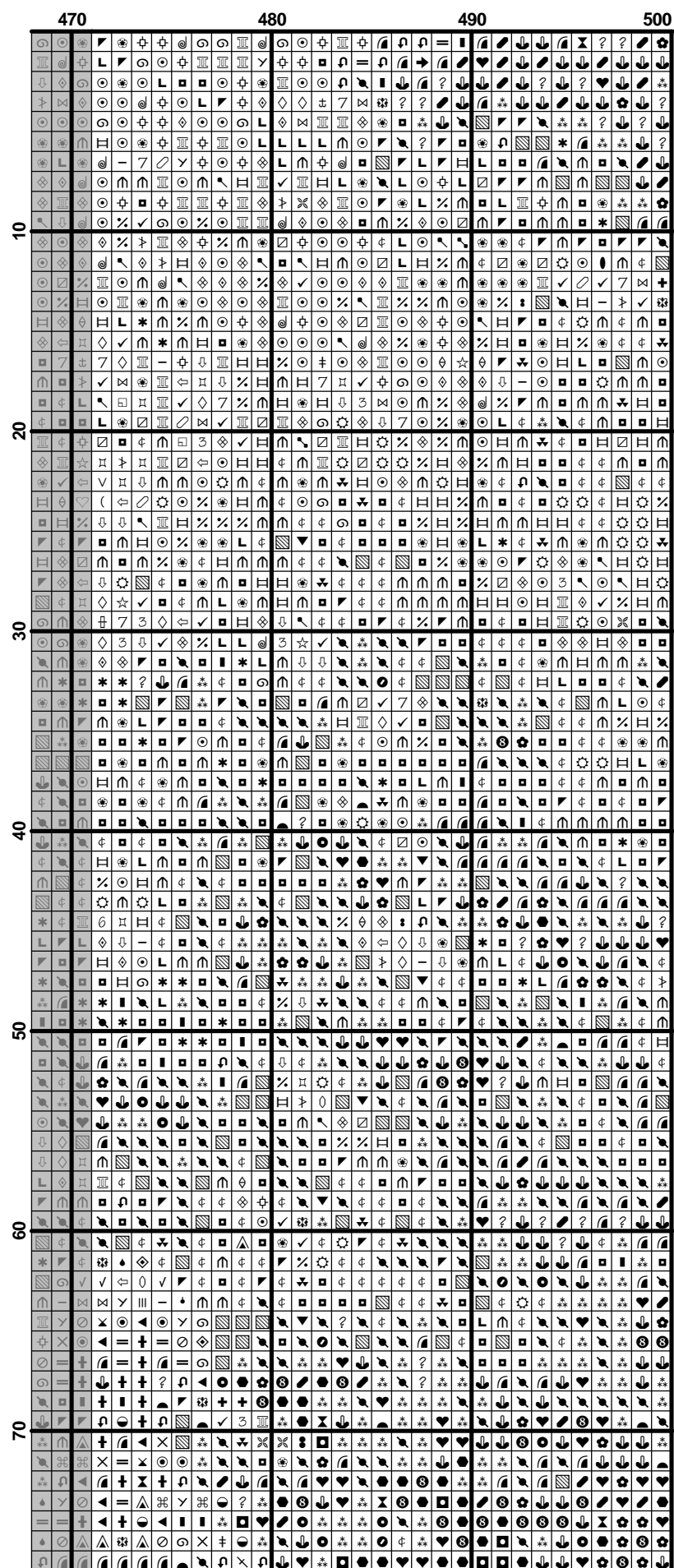


$$(16) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

[illegible]

	370	380	390	400	410
10					
20					
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70					



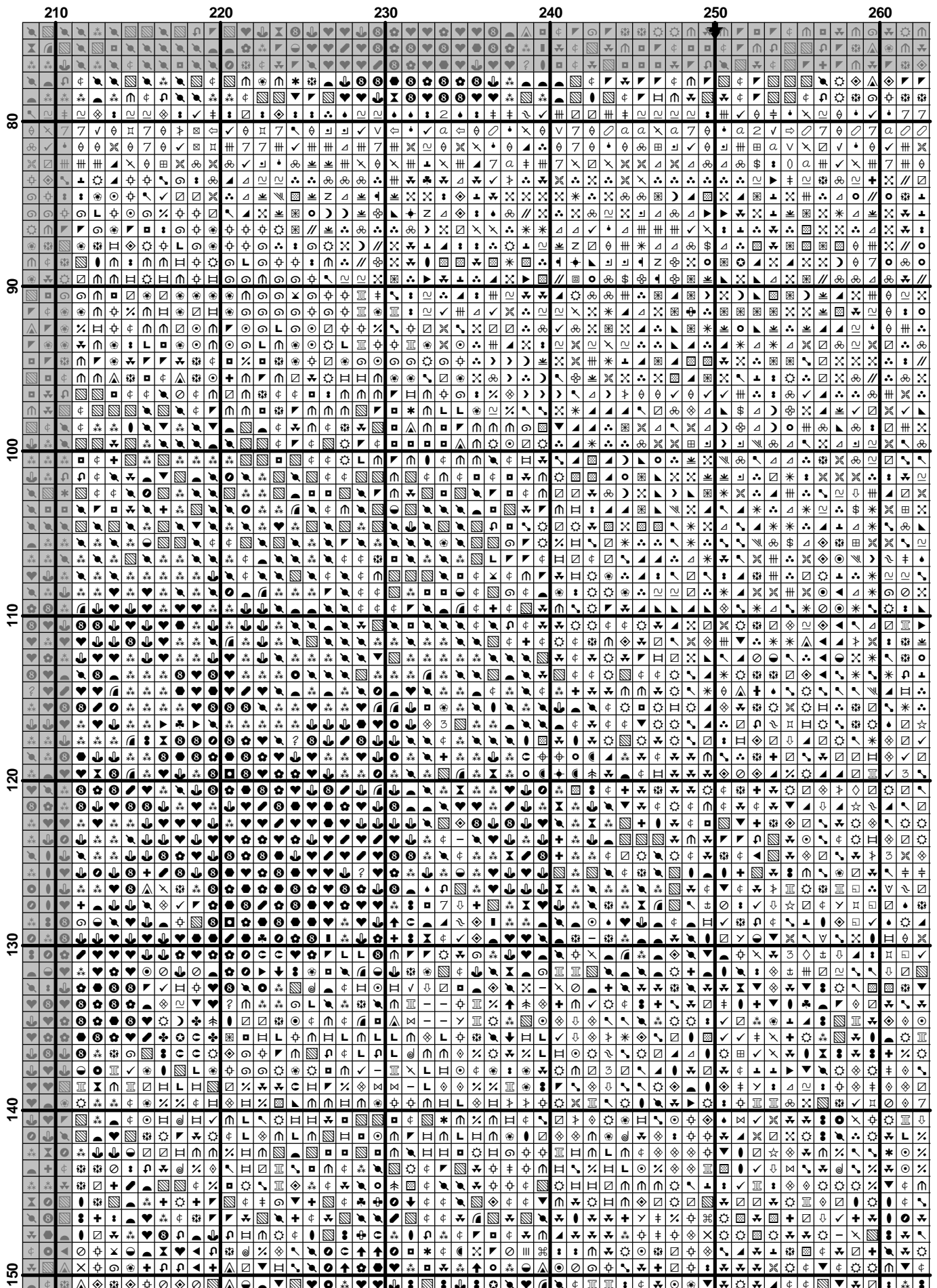


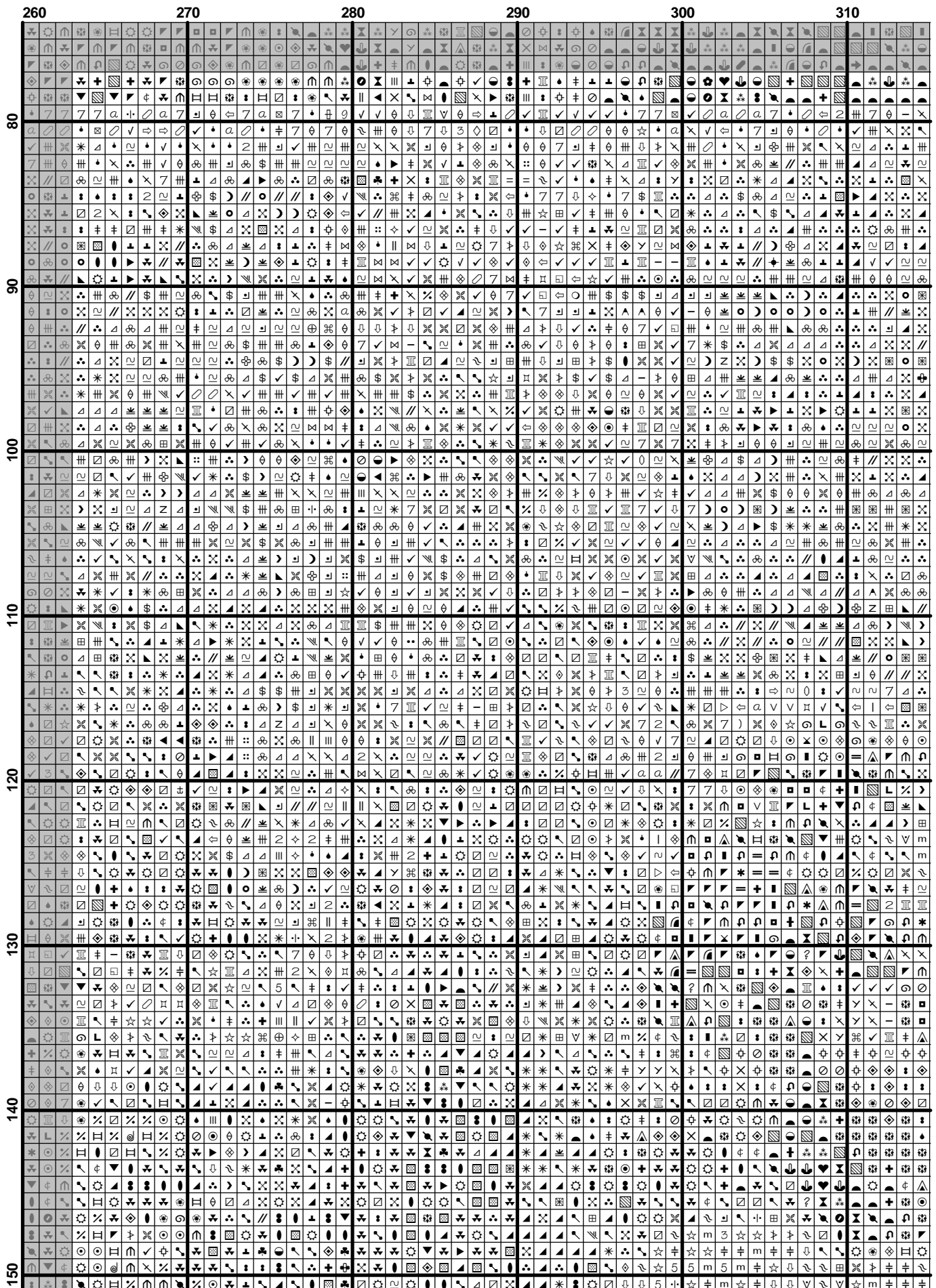
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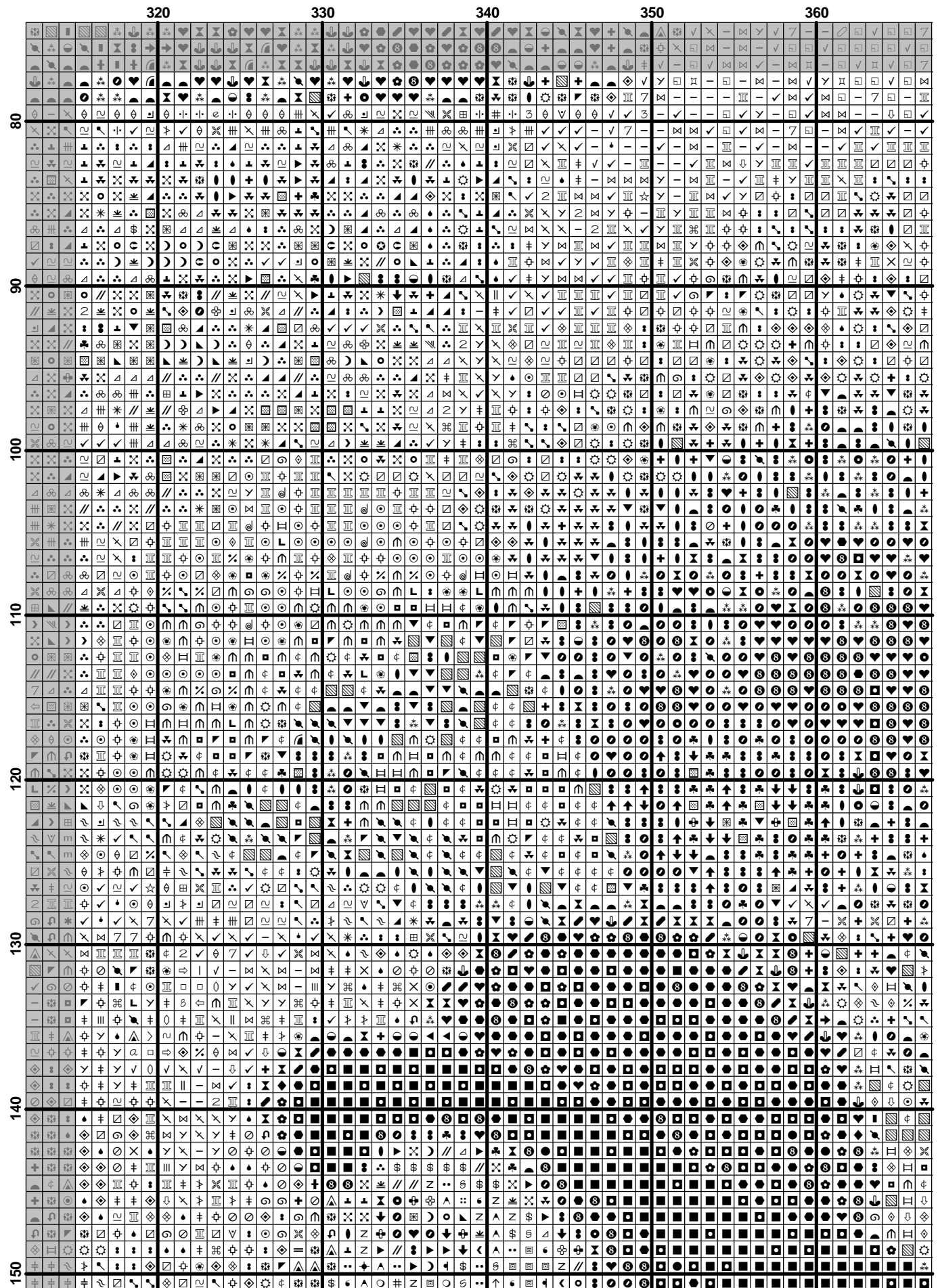
$$(22) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	110	120	130	140	150
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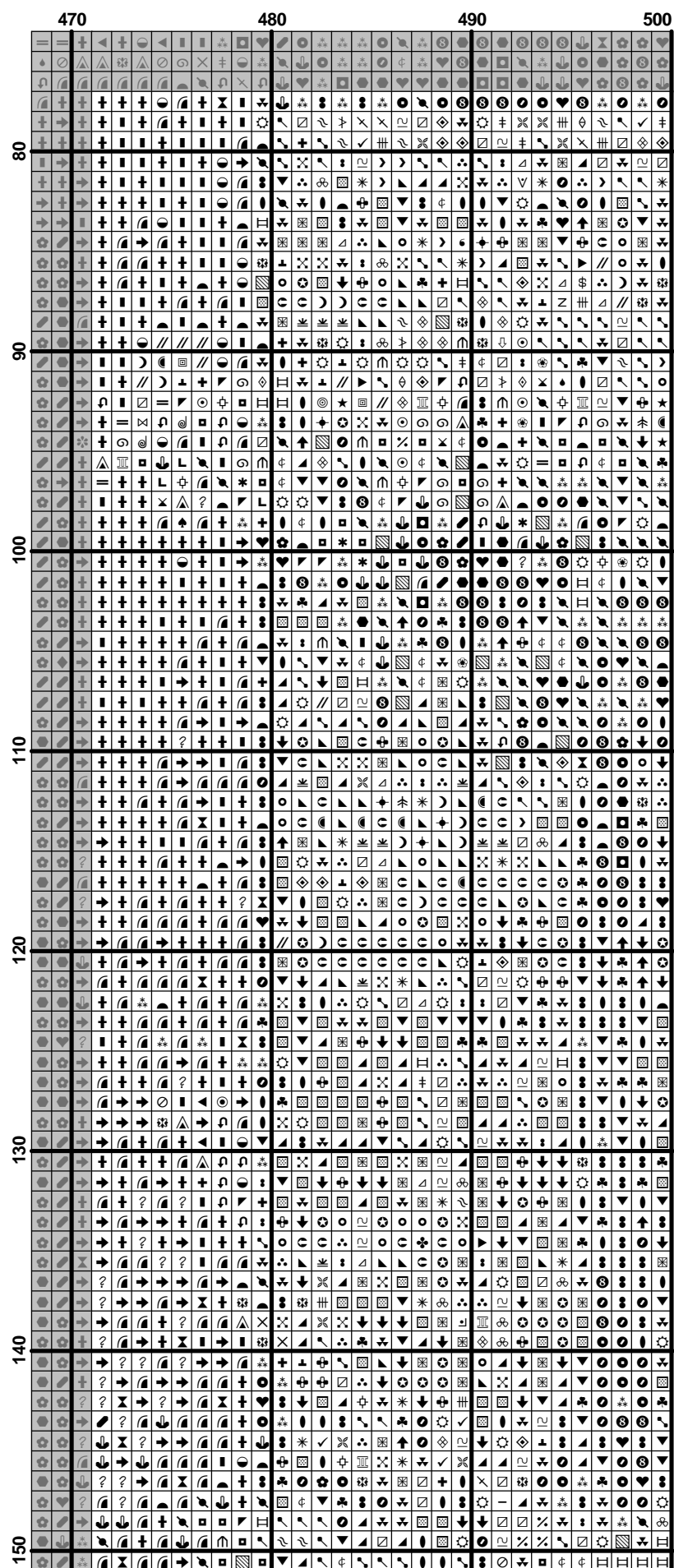






	370	380	390	400	410
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100
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150

	420	430	440	450	460	470
80
90
100
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120
130
140
150



$$(31) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

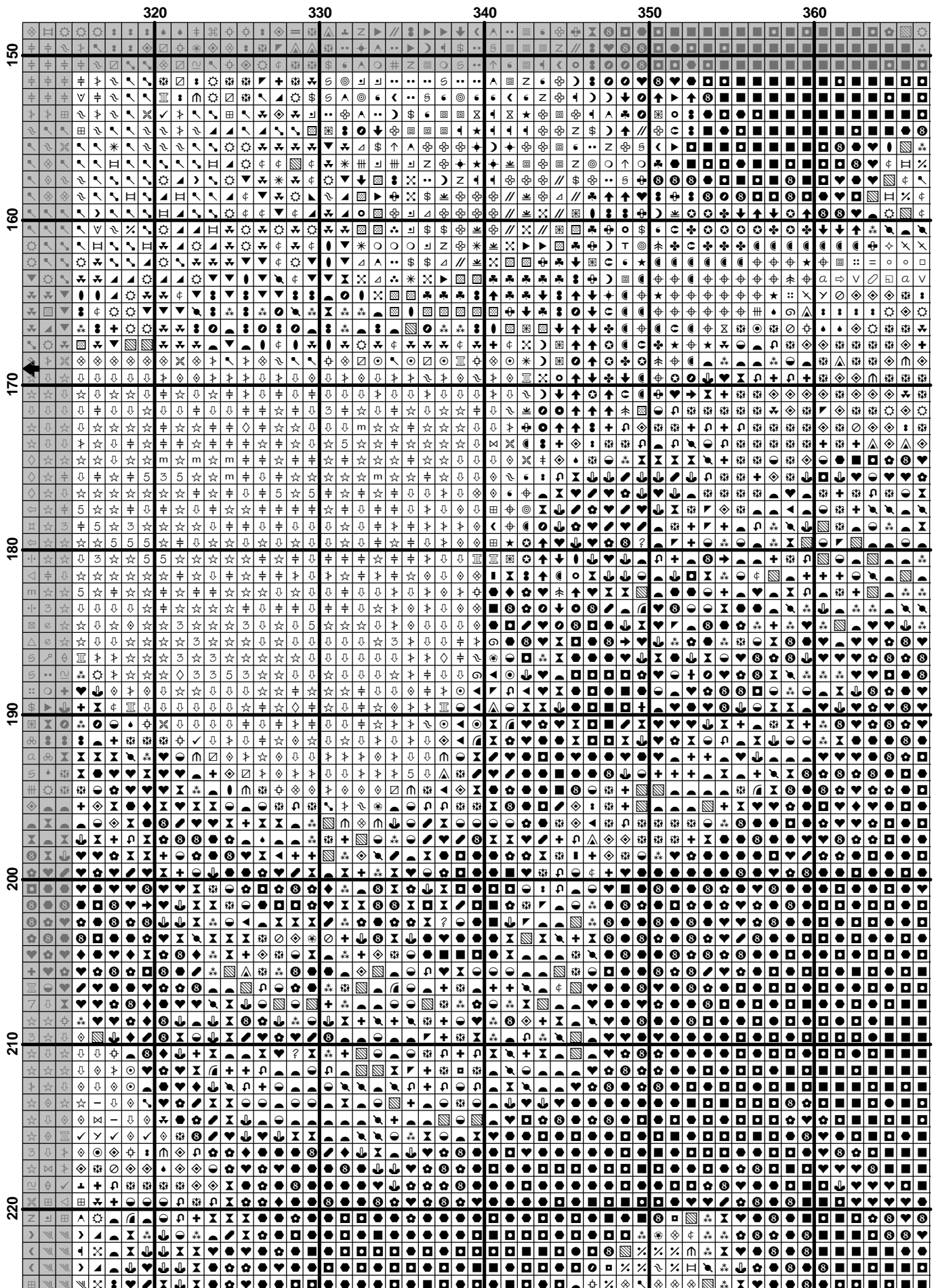
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	110	120	130	140	150
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	160	170	180	190	200	210
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	210	220	230	240	250	260
150						
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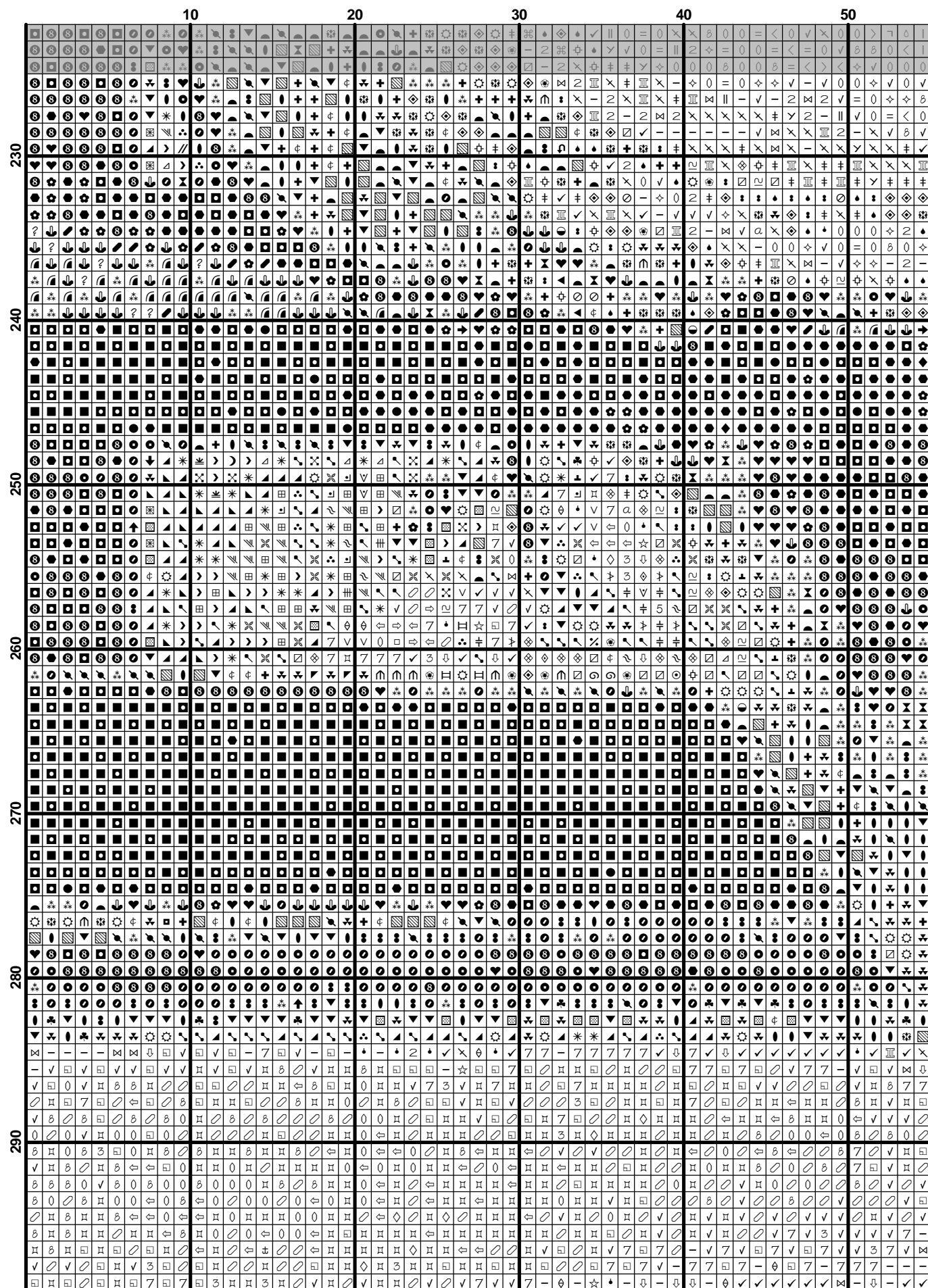
	260	270	280	290	300	310
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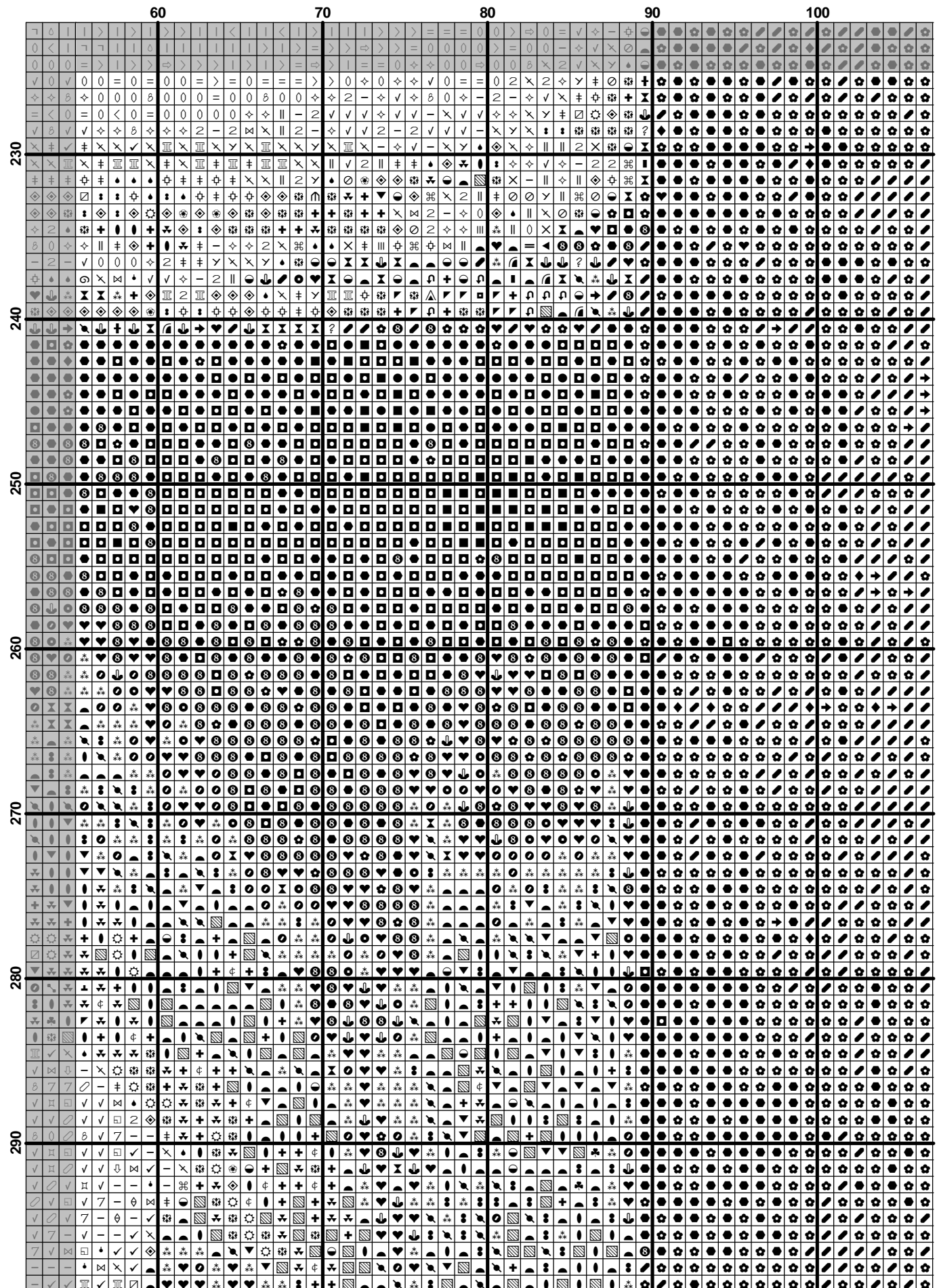


	370	380	390	400	410
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(40)

	470	480	490	500
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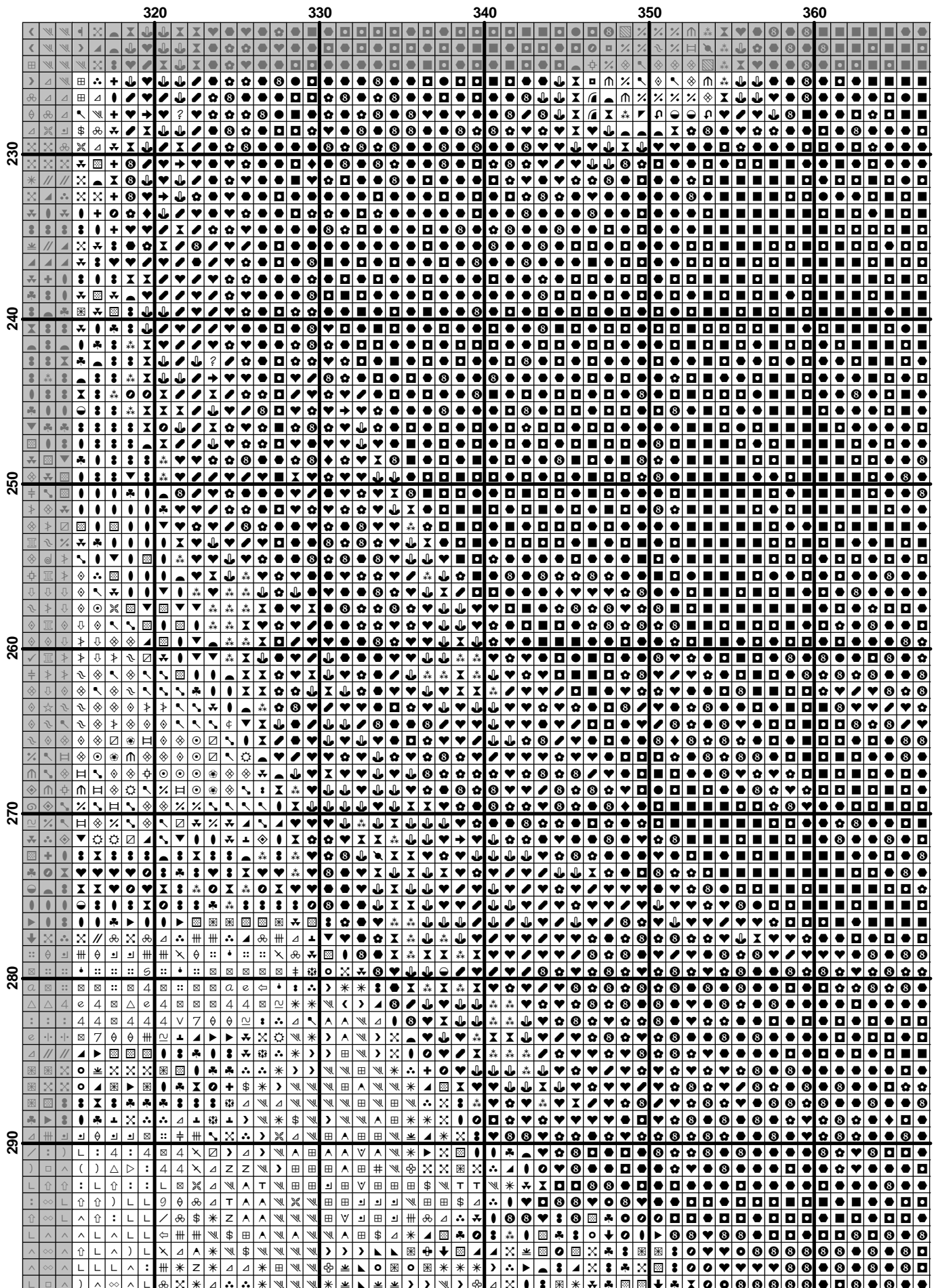


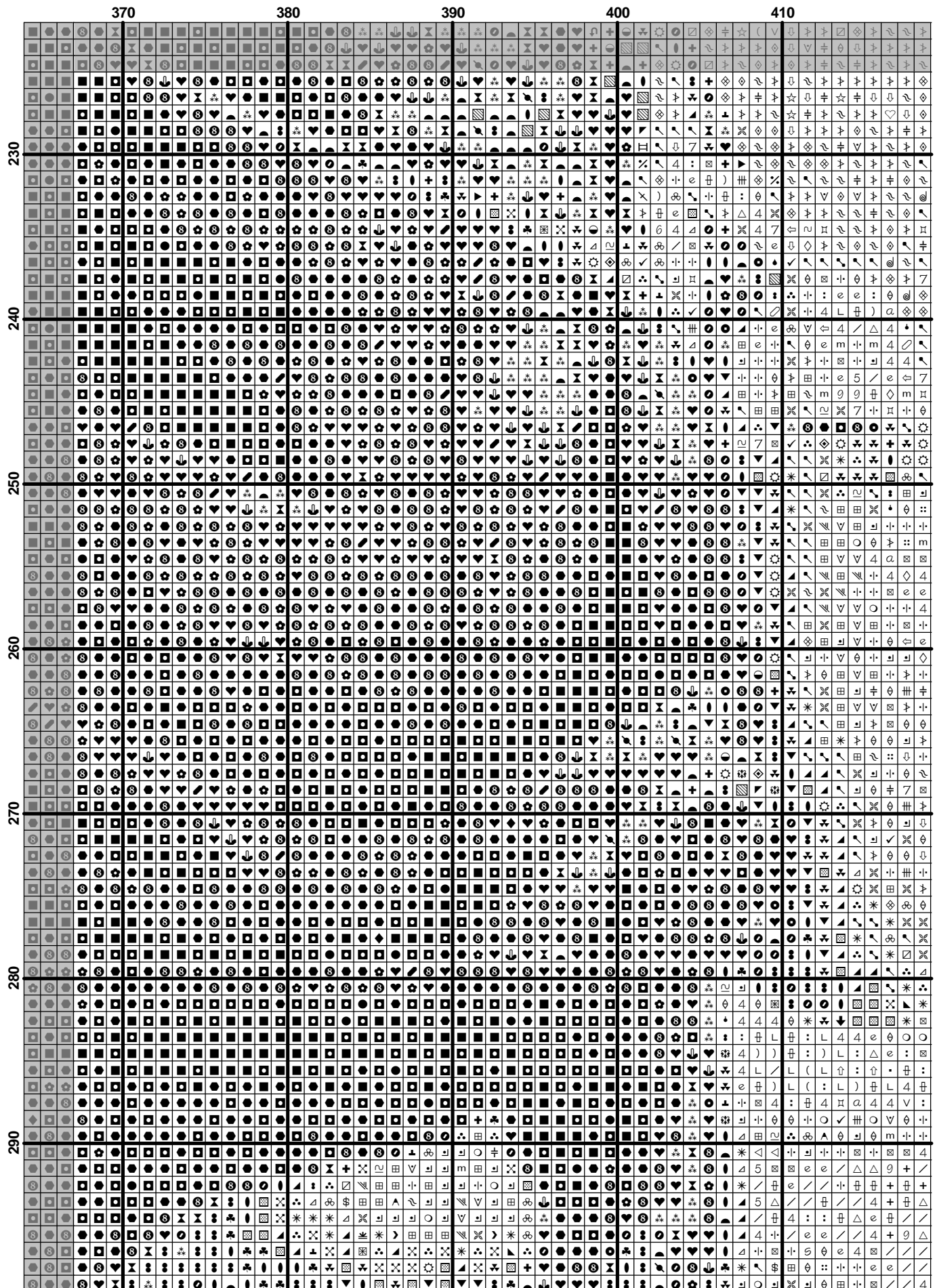
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$$(44) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in [0, T],$$

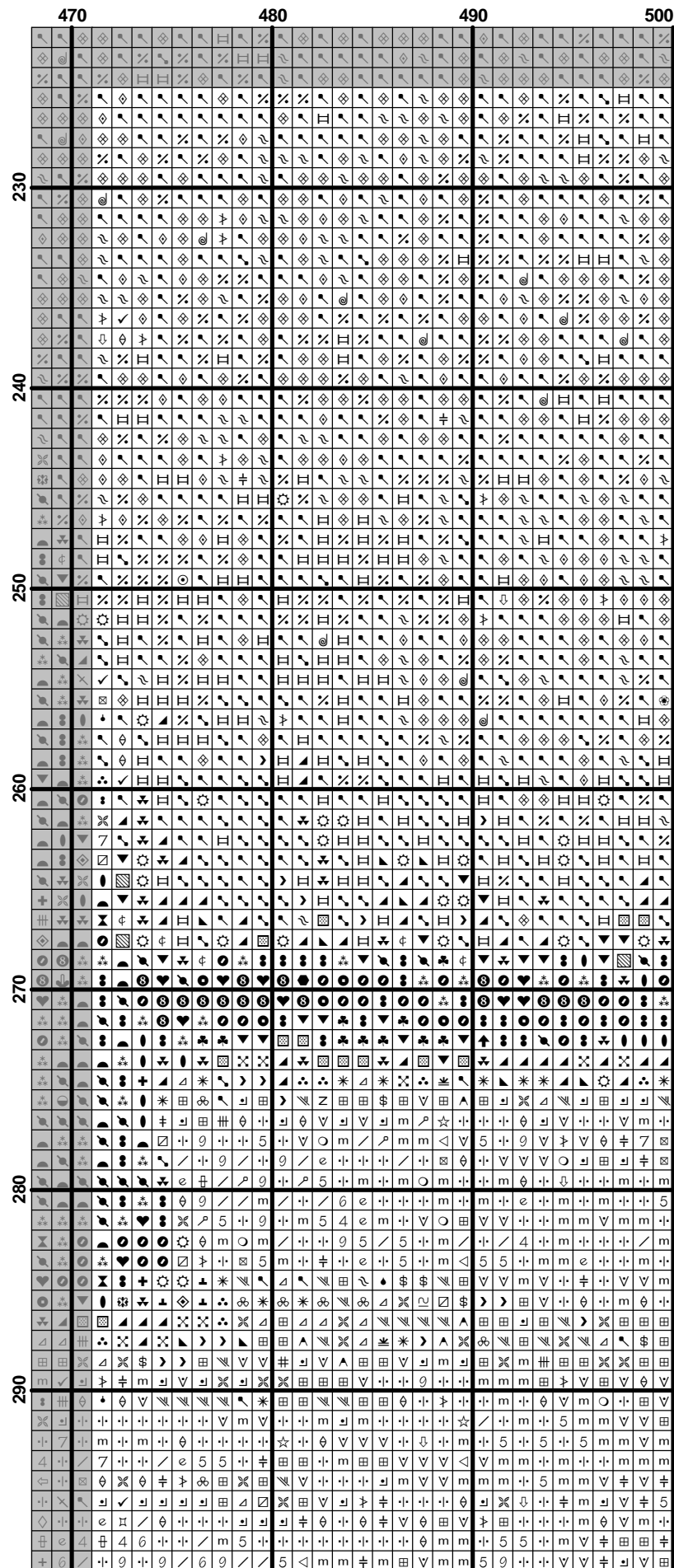
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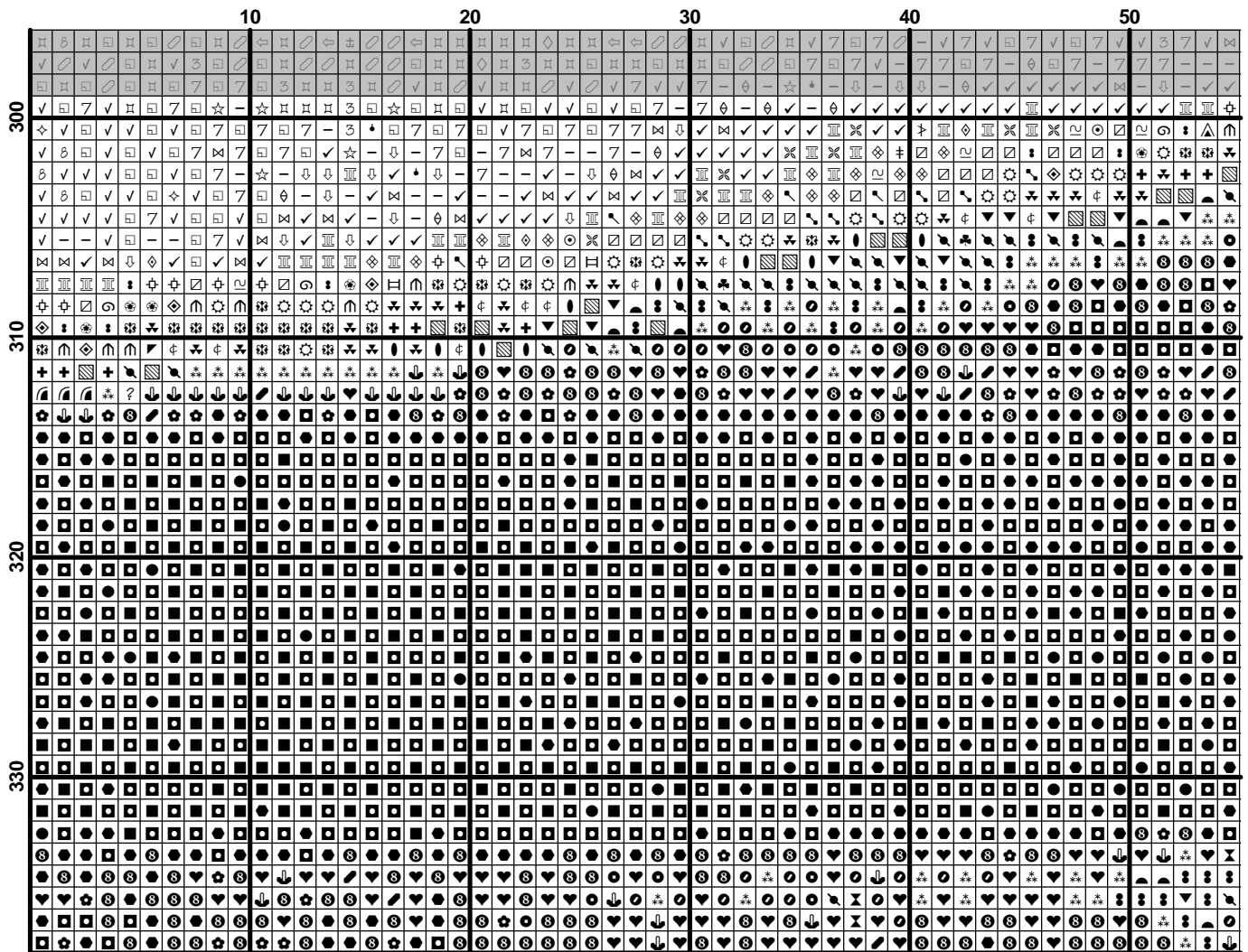
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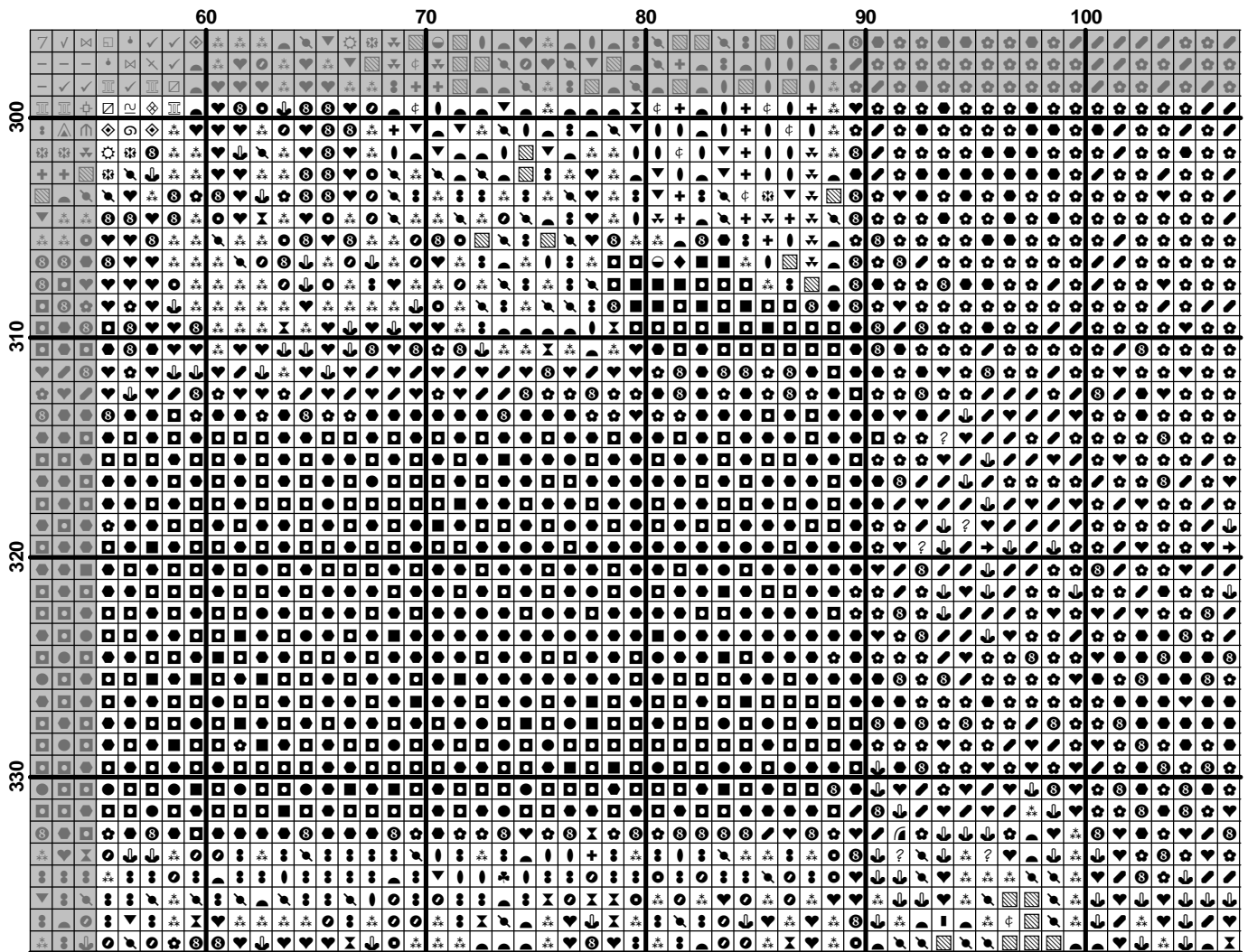




$$(49) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$







	110	120	130	140	150
300					
310					
320					
330					

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	210										220										230										240										250										260									
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