

# 1367 The Horse Fair



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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 Horse Fair

Stitch Count	
Horizontal:	599
Vertical:	278

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:	109	42.75	51	19.76	95	37.4	44	17.29	85	33.25	40	15.375
Including Margins:	125	49	67	26	111	44	60	24	101	40	56	22
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	152	59.85	71	27.66	127	49.87	59	23.05	63	24.93	29	11.52
Including Margins:	168	66	87	34	143	56	75	30	79	31	45	18
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	61	23.94	28	11.06	58	23.01	27	10.64	56	22.16	26	10.24
Including Margins:	77	30	44	18	74	30	43	17	72	29	42	17
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	54	21.37	25	9.88	50	19.95	23	9.22	47	18.7	22	8.64
Including Margins:	70	28	41	16	66	26	39	16	63	25	38	15

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
m	224	Shell Pink-VY LT
♠	367	Pistachio Green-DK
⊕	370	Mustard-MD
*	371	Mustard
•	407	Desert Sand-DK
■	413	Pewter Gray-DK
·	415	Pearl Gray
*	420	Hazelnut Brown-DK
■	434	Brown-LT
//	435	Brown-VY LT
⓪	436	Tan
↑	437	Tan-LT
5	453	Shell Gray-LT
■	500	Blue Green-VY DK
⊕	501	Blue Green-DK
♣	502	Blue Green
⊗	503	Blue Green-MD
::	519	Sky Blue
⓪	522	Fern Green
✓	524	Fern Green-VY LT
▲	535	Ash Gray-VY LT
↔	543	Beige Brown-UL VY LT
+	610	Drab Brown-DK
☾	611	Drab Brown
⓪	613	Drab Brown-VY LT
●	632	Desert Sand-UL VY DK
✦	640	Beige Gray-VY DK
✧	642	Beige Gray-DK
⓪	644	Beige Gray-MD
♠	645	Beaver Gray-VY DK
♣	647	Beaver Gray-MD
—	648	Beaver Gray-LT
^	677	Old Gold-VY LT
≡	738	Tan-VY LT
⓪	739	Tan-UL VY LT
«	746	Off White
4	754	Peach-LT
○	822	Beige Gray-LT
◆	838	Beige Brown-VY DK
■	839	Beige Brown-DK

▲	840	Beige Brown-MD
■	841	Beige Brown-LT
↓	844	Beaver Brown-UL DK
■	869	Hazelnut Brown-VY DK
✧	927	Gray Green-LT
⊕	928	Gray Green-VY LT
⊕	932	Antique Blue-LT
●	934	Black Avocado Green
●	935	Avocado Green-DK
⊕	938	Coffee Brown-UL DK
○	948	Peach-VY LT
•	951	Tawny-LT
⊙	977	Golden Brown-LT
↑	3021	Brown Gray-VY DK
∴	3022	Brown Gray-MD
≡	3023	Brown Gray-LT
e	3024	Brown Gray-VY LT
♥	3031	Mocha Brown-VY DK
◀	3032	Mocha Brown-MD
T	3045	Yellow Beige-DK
:	3072	Beaver Gray-VY LT
▲	3363	Pine Green-MD
√	3752	Antique Blue-VY LT
β	3753	Antique Blue-UL VY LT
H	3766	Peacock Blue-LT
△	3770	Tawny-VY LT
♦	3772	Desert Sand-VY DK
←	3781	Mocha Brown-DK
⊙	3787	Brown Gray-DK
✦	3790	Beige Gray-UL DK
♣	3799	Pewter Gray-VY DK
~	3823	Yellow-UL Pale
▼	3826	Golden Brown
7	3827	Golden Brown-Pale
⊕	3828	Hazelnut Brown
)	3855	Autumn Gold-LT
◇	3856	Mahogany-UL VY LT
■	3860	Cocoa
■	3862	Mocha Beige-DK
⊙	3863	Mocha Beige-MD
≡	3864	Mocha Beige-LT
1	3865	Winter White

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

Symbol	DMC1	Name1	DMC2	Name2
L	840	Beige Brown-MD	3032	Mocha Brown-MD
●	640	Beige Gray-VY DK	3860	Cocoa
☼	640	Beige Gray-VY DK	840	Beige Brown-MD
◻	927	Gray Green-LT	928	Gray Green-VY LT
▼	839	Beige Brown-DK	3787	Brown Gray-DK
○	452	Shell Gray-MD	648	Beaver Gray-LT
☆	415	Pearl Gray	3752	Antique Blue-VY LT
=	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
➔	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
♣	647	Beaver Gray-MD	503	Blue Green-MD
↘	840	Beige Brown-MD	841	Beige Brown-LT
✂	644	Beige Gray-MD	3864	Mocha Beige-LT
◀	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
/	453	Shell Gray-LT	543	Beige Brown-UL VY LT
↓	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
⋮	413	Pewter Gray-DK	924	Gray Green--VY DK
◇	318	Steel Gray-LT	927	Gray Green-LT
●	839	Beige Brown-DK	869	Hazelnut Brown-VY DK
..	452	Shell Gray-MD	928	Gray Green-VY LT
†	632	Desert Sand-UL VY DK	839	Beige Brown-DK
◇	356	Terra Cotta-MD	435	Brown-VY LT
☾	356	Terra Cotta-MD	632	Desert Sand-UL VY DK
/	356	Terra Cotta-MD	370	Mustard-MD
n	746	Off White	3770	Tawny-VY LT
♣	501	Blue Green-DK	844	Beaver Brown-UL DK
▲	407	Desert Sand-DK	3864	Mocha Beige-LT
Φ	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
3	415	Pearl Gray	3024	Brown Gray-VY LT
#	407	Desert Sand-DK	738	Tan-VY LT
■	924	Gray Green--VY DK	501	Blue Green-DK
☒	928	Gray Green-VY LT	3024	Brown Gray-VY LT
田	524	Fern Green-VY LT	927	Gray Green-LT
⋮	3022	Brown Gray-MD	647	Beaver Gray-MD
9	453	Shell Gray-LT	822	Beige Gray-LT
✂	524	Fern Green-VY LT	452	Shell Gray-MD
(	822	Beige Gray-LT	3770	Tawny-VY LT
×	415	Pearl Gray	932	Antique Blue-LT
\$	841	Beige Brown-LT	3023	Brown Gray-LT
■	310	Black	934	Black Avocado Green
●	310	Black	3799	Pewter Gray-VY DK
☼	924	Gray Green--VY DK	844	Beaver Brown-UL DK
⌂	839	Beige Brown-DK	3021	Brown Gray-VY DK
♡	762	Pearl Gray-VY LT	3072	Beaver Gray-VY LT
	3072	Beaver Gray-VY LT	3770	Tawny-VY LT
☼	370	Mustard-MD	3032	Mocha Brown-MD
○	356	Terra Cotta-MD	3032	Mocha Brown-MD
+	677	Old Gold-VY LT	3856	Mahogany-UL VY LT
☒	435	Brown-VY LT	977	Golden Brown-LT
★	503	Blue Green-MD	367	Pistachio Green-DK
☒	501	Blue Green-DK	502	Blue Green
✂	924	Gray Green--VY DK	3799	Pewter Gray-VY DK
♣	415	Pearl Gray	3766	Peacock Blue-LT
☼	932	Antique Blue-LT	3766	Peacock Blue-LT

☼	632	Desert Sand-UL VY DK	3860	Cocoa
☼	503	Blue Green-MD	3363	Pine Green-MD
☼	522	Fern Green	3790	Beige Gray-UL DK
☼	645	Beaver Gray-VY DK	844	Beaver Brown-UL DK
☼	310	Black	3021	Brown Gray-VY DK
☼	746	Off White	3753	Antique Blue-UL VY LT
☼	420	Hazelnut Brown-DK	436	Tan
☼	436	Tan	3856	Mahogany-UL VY LT
☼	502	Blue Green	503	Blue Green-MD
☼	502	Blue Green	640	Beige Gray-VY DK
☼	632	Desert Sand-UL VY DK	3787	Brown Gray-DK
☼	632	Desert Sand-UL VY DK	435	Brown-VY LT
☼	738	Tan-VY LT	3045	Yellow Beige-DK
☼	420	Hazelnut Brown-DK	435	Brown-VY LT
☼	3772	Desert Sand-VY DK	3790	Beige Gray-UL DK
☼	436	Tan	3827	Golden Brown-Pale
☼	3772	Desert Sand-VY DK	3863	Mocha Beige-MD
☼	407	Desert Sand-DK	3045	Yellow Beige-DK
☼	3032	Mocha Brown-MD	3045	Yellow Beige-DK
☼	356	Terra Cotta-MD	3863	Mocha Beige-MD
☼	3863	Mocha Beige-MD	370	Mustard-MD
☼	436	Tan	3828	Hazelnut Brown

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	
224	Shell Pink-VY LT	6	2	6	2	5	1
310	Black	2107	829	2007	790	1806	711
318	Steel Gray-LT	10	3	9	3	8	3
356	Terra Cotta-MD	353	138	336	132	303	119
367	Pistachio Green-DK	5	1	5	1	4	1
370	Mustard-MD	753	296	717	282	645	253
371	Mustard	44	17	42	16	38	14
407	Desert Sand-DK	227	89	216	85	194	76
413	Pewter Gray-DK	99	38	94	37	85	33
415	Pearl Gray	326	128	311	122	280	110
420	Hazelnut Brown-DK	883	347	841	331	756	297
434	Brown-LT	34	13	32	12	29	11
435	Brown-VY LT	391	153	372	146	335	131
436	Tan	537	211	512	201	461	181
437	Tan-LT	31	12	29	11	26	10
452	Shell Gray-MD	347	136	331	130	298	117
453	Shell Gray-LT	862	339	821	323	739	290
500	Blue Green-VY DK	149	58	142	55	127	50
501	Blue Green-DK	161	63	154	60	138	54
502	Blue Green	66	25	62	24	56	22
503	Blue Green-MD	40	15	38	14	34	13
519	Sky Blue	7	2	6	2	6	2
522	Fern Green	59	23	56	22	50	19
524	Fern Green-VY LT	330	129	314	123	282	111
535	Ash Gray-VY LT	539	212	514	202	462	181
543	Beige Brown-UL VY LT	309	121	294	115	265	104
610	Drab Brown-DK	288	113	274	107	246	96
611	Drab Brown	214	84	204	80	183	72
613	Drab Brown-VY LT	195	76	186	73	167	65
632	Desert Sand-UL VY DK	697	274	664	261	597	235
640	Beige Gray-VY DK	642	252	611	240	550	216
642	Beige Gray-DK	50	19	48	18	43	16
644	Beige Gray-MD	611	240	582	229	524	206
645	Beaver Gray-VY DK	888	349	845	332	761	299
647	Beaver Gray-MD	261	102	249	98	224	88
648	Beaver Gray-LT	835	328	795	312	715	281
677	Old Gold-VY LT	85	33	81	31	73	28
738	Tan-VY LT	190	74	181	71	163	64
739	Tan-UL VY LT	146	57	139	54	125	49
746	Off White	520	204	495	194	446	175
754	Peach-LT	31	12	29	11	26	10
762	Pearl Gray-VY LT	38	14	37	14	33	12
822	Beige Gray-LT	349	137	333	131	299	117
838	Beige Brown-VY DK	95	37	90	35	81	31
839	Beige Brown-DK	1267	498	1206	474	1086	427
840	Beige Brown-MD	585	230	557	219	501	197
841	Beige Brown-LT	390	153	371	146	334	131
844	Beaver Brown-UL DK	4548	1790	4331	1705	3898	1534
869	Hazelnut Brown-VY DK	73	28	70	27	63	24
924	Gray Green--VY DK	962	378	917	361	825	324
927	Gray Green-LT	364	143	347	136	312	122
928	Gray Green-VY LT	1287	506	1226	482	1103	434
932	Antique Blue-LT	98	38	93	36	84	33

934	Black Avocado Green	149	58	142	55	128	50
935	Avocado Green-DK	378	148	360	141	324	127
938	Coffee Brown-UL DK	45	17	43	16	38	14
948	Peach-VY LT	68	26	65	25	58	22
951	Tawny-LT	177	69	169	66	152	59
977	Golden Brown-LT	34	13	32	12	29	11
3021	Brown Gray-VY DK	3884	1529	3699	1456	3329	1310
3022	Brown Gray-MD	278	109	265	104	238	93
3023	Brown Gray-LT	295	116	281	110	252	99
3024	Brown Gray-VY LT	1101	433	1049	412	944	371
3031	Mocha Brown-VY DK	196	77	187	73	168	66
3032	Mocha Brown-MD	569	224	542	213	488	192
3045	Yellow Beige-DK	275	108	262	103	236	92
3072	Beaver Gray-VY LT	377	148	359	141	323	127
3363	Pine Green-MD	11	4	11	4	10	3
3752	Antique Blue-VY LT	42	16	40	15	36	14
3753	Antique Blue-UL VY LT	36	14	35	13	31	12
3766	Peacock Blue-LT	81	31	77	30	69	27
3770	Tawny-VY LT	511	201	487	191	438	172
3772	Desert Sand-VY DK	935	368	890	350	801	315
3781	Mocha Brown-DK	146	57	139	54	125	49
3787	Brown Gray-DK	2175	856	2072	815	1864	733
3790	Beige Gray-UL DK	1341	527	1277	502	1149	452
3799	Pewter Gray-VY DK	5442	2142	5182	2040	4664	1836
3823	Yellow-UL Pale	240	94	229	90	206	81
3826	Golden Brown	1	1	1	1	1	1
3827	Golden Brown-Pale	22	8	20	7	18	7
3828	Hazelnut Brown	435	171	415	163	373	146
3855	Autumn Gold-LT	7	2	7	2	6	2
3856	Mahogany-UL VY LT	88	34	84	33	75	29
3860	Cocoa	497	195	473	186	426	167
3862	Mocha Beige-DK	1131	445	1077	424	970	381
3863	Mocha Beige-MD	1294	509	1233	485	1109	436
3864	Mocha Beige-LT	294	115	280	110	252	99
3865	Winter White	12	4	11	4	10	3

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
224	Shell Pink-VY LT	9	2	8	2	4	1
310	Black	3251	1280	2709	1067	1355	533
318	Steel Gray-LT	14	5	12	5	6	2
356	Terra Cotta-MD	545	214	455	179	227	89
367	Pistachio Green-DK	7	2	6	2	3	1
370	Mustard-MD	1161	455	968	380	484	190
371	Mustard	68	25	57	21	29	11
407	Desert Sand-DK	349	137	291	114	146	57
413	Pewter Gray-DK	153	59	128	50	64	25
415	Pearl Gray	504	198	420	165	210	83
420	Hazelnut Brown-DK	1361	535	1134	446	567	223
434	Brown-LT	52	20	44	17	22	8
435	Brown-VY LT	603	236	503	197	251	98
436	Tan	830	326	692	272	346	136
437	Tan-LT	47	18	39	15	20	8
452	Shell Gray-MD	536	211	447	176	224	88
453	Shell Gray-LT	1330	522	1109	435	554	218



500	Blue Green-VY DK	229	90	191	75	95	38
501	Blue Green-DK	248	97	207	81	104	41
502	Blue Green	101	40	84	33	42	17
503	Blue Green-MD	61	23	51	20	26	10
519	Sky Blue	11	4	9	3	5	2
522	Fern Green	90	34	75	29	38	14
524	Fern Green-VY LT	508	200	423	167	212	83
535	Ash Gray-VY LT	832	326	693	272	347	136
543	Beige Brown-UL VY LT	477	187	398	156	199	78
610	Drab Brown-DK	443	173	369	144	185	72
611	Drab Brown	329	130	275	108	137	54
613	Drab Brown-VY LT	301	117	251	98	125	49
632	Desert Sand-UL VY DK	1075	423	896	353	448	176
640	Beige Gray-VY DK	990	389	825	324	413	162
642	Beige Gray-DK	77	29	65	24	32	12
644	Beige Gray-MD	943	371	786	309	393	155
645	Beaver Gray-VY DK	1370	538	1142	449	571	224
647	Beaver Gray-MD	403	158	336	132	168	66
648	Beaver Gray-LT	1287	506	1073	422	536	211
677	Old Gold-VY LT	131	50	110	42	55	21
738	Tan-VY LT	293	115	245	96	122	48
739	Tan-UL VY LT	225	88	188	74	94	37
746	Off White	803	315	669	263	335	131
754	Peach-LT	47	18	39	15	20	8
762	Pearl Gray-VY LT	59	22	50	18	25	9
822	Beige Gray-LT	538	211	449	176	224	88
838	Beige Brown-VY DK	146	56	122	47	61	23
839	Beige Brown-DK	1955	769	1629	641	815	320
840	Beige Brown-MD	902	355	752	296	376	148
841	Beige Brown-LT	601	236	501	197	251	98
844	Beaver Brown-UL DK	7016	2761	5847	2301	2924	1151
869	Hazelnut Brown-VY DK	113	43	95	36	47	18
924	Gray Green--VY DK	1485	583	1238	486	619	243
927	Gray Green-LT	562	220	468	183	234	92
928	Gray Green-VY LT	1985	781	1655	651	827	326
932	Antique Blue-LT	151	59	126	50	63	25
934	Black Avocado Green	230	90	192	75	96	38
935	Avocado Green-DK	583	229	486	191	243	95
938	Coffee Brown-UL DK	68	25	57	21	29	11
948	Peach-VY LT	104	40	87	33	44	17
951	Tawny-LT	274	106	228	89	114	44
977	Golden Brown-LT	52	20	44	17	22	8
3021	Brown Gray-VY DK	5992	2358	4994	1965	2497	983
3022	Brown Gray-MD	428	167	357	140	179	70
3023	Brown Gray-LT	454	178	378	149	189	74
3024	Brown Gray-VY LT	1699	668	1416	557	708	278
3031	Mocha Brown-VY DK	302	119	252	99	126	50
3032	Mocha Brown-MD	878	346	732	288	366	144
3045	Yellow Beige-DK	425	166	354	138	177	69
3072	Beaver Gray-VY LT	581	229	485	191	242	95
3363	Pine Green-MD	18	5	15	5	8	2
3752	Antique Blue-VY LT	65	25	54	21	27	11
3753	Antique Blue-UL VY LT	56	22	47	18	23	9
3766	Peacock Blue-LT	124	49	104	41	52	20
3770	Tawny-VY LT	788	310	657	258	329	129
3772	Desert Sand-VY DK	1442	567	1202	473	601	236
3781	Mocha Brown-DK	225	88	188	74	94	37
3787	Brown Gray-DK	3355	1319	2796	1100	1398	550
3790	Beige Gray-UL DK	2068	814	1724	678	862	339

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3799	Pewter Gray-VY DK	8395	3305	6996	2754	3498	1377
3823	Yellow-UL Pale	371	146	309	122	155	61
3826	Golden Brown	2	2	2	2	1	1
3827	Golden Brown-Pale	32	13	27	11	14	5
3828	Hazelnut Brown	671	263	560	219	280	110
3855	Autumn Gold-LT	11	4	9	3	5	2
3856	Mahogany-UL VY LT	135	52	113	44	56	22
3860	Cocoa	767	301	639	251	320	125
3862	Mocha Beige-DK	1746	686	1455	572	728	286
3863	Mocha Beige-MD	1996	785	1664	654	832	327
3864	Mocha Beige-LT	454	178	378	149	189	74
3865	Winter White	18	5	15	5	8	2

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
224	Shell Pink-VY LT	4	1	3	1	3	1
310	Black	1300	512	1250	492	1204	474
318	Steel Gray-LT	6	2	6	2	5	2
356	Terra Cotta-MD	218	86	210	82	202	79
367	Pistachio Green-DK	3	1	3	1	3	1
370	Mustard-MD	464	182	447	175	430	169
371	Mustard	27	10	26	10	25	9
407	Desert Sand-DK	140	55	134	53	129	51
413	Pewter Gray-DK	61	24	59	23	57	22
415	Pearl Gray	202	79	194	76	187	73
420	Hazelnut Brown-DK	544	214	523	206	504	198
434	Brown-LT	21	8	20	8	19	7
435	Brown-VY LT	241	94	232	91	223	87
436	Tan	332	130	319	125	307	121
437	Tan-LT	19	7	18	7	17	7
452	Shell Gray-MD	215	84	206	81	199	78
453	Shell Gray-LT	532	209	512	201	493	193
500	Blue Green-VY DK	91	36	88	35	85	33
501	Blue Green-DK	99	39	96	37	92	36
502	Blue Green	40	16	39	15	37	15
503	Blue Green-MD	24	9	24	9	23	9
519	Sky Blue	4	1	4	1	4	1
522	Fern Green	36	14	35	13	33	13
524	Fern Green-VY LT	203	80	195	77	188	74
535	Ash Gray-VY LT	333	130	320	125	308	121
543	Beige Brown-UL VY LT	191	75	183	72	177	69
610	Drab Brown-DK	177	69	170	66	164	64
611	Drab Brown	132	52	127	50	122	48
613	Drab Brown-VY LT	120	47	116	45	111	43
632	Desert Sand-UL VY DK	430	169	413	163	398	157
640	Beige Gray-VY DK	396	156	381	150	367	144
642	Beige Gray-DK	31	12	30	11	29	11
644	Beige Gray-MD	377	148	363	143	349	137
645	Beaver Gray-VY DK	548	215	527	207	507	199
647	Beaver Gray-MD	161	63	155	61	149	59
648	Beaver Gray-LT	515	202	495	195	477	187
677	Old Gold-VY LT	53	20	51	19	49	19
738	Tan-VY LT	117	46	113	44	109	43
739	Tan-UL VY LT	90	35	87	34	83	33
746	Off White	321	126	309	121	297	117

754	Peach-LT	19	7	18	7	17	7
762	Pearl Gray-VY LT	24	9	23	8	22	8
822	Beige Gray-LT	215	84	207	81	199	78
838	Beige Brown-VY DK	58	22	56	21	54	21
839	Beige Brown-DK	782	307	752	296	724	285
840	Beige Brown-MD	361	142	347	136	334	131
841	Beige Brown-LT	240	94	231	91	223	87
844	Beaver Brown-UL DK	2807	1104	2699	1062	2599	1023
869	Hazelnut Brown-VY DK	45	17	44	17	42	16
924	Gray Green--VY DK	594	233	571	224	550	216
927	Gray Green-LT	225	88	216	84	208	81
928	Gray Green-VY LT	794	312	764	300	735	289
932	Antique Blue-LT	60	24	58	23	56	22
934	Black Avocado Green	92	36	89	35	85	33
935	Avocado Green-DK	233	91	224	88	216	85
938	Coffee Brown-UL DK	27	10	26	10	25	9
948	Peach-VY LT	42	16	40	15	39	15
951	Tawny-LT	109	42	105	41	101	39
977	Golden Brown-LT	21	8	20	8	19	7
3021	Brown Gray-VY DK	2397	943	2305	907	2219	873
3022	Brown Gray-MD	171	67	165	64	159	62
3023	Brown Gray-LT	181	71	174	69	168	66
3024	Brown Gray-VY LT	680	267	654	257	629	247
3031	Mocha Brown-VY DK	121	48	116	46	112	44
3032	Mocha Brown-MD	351	138	338	133	325	128
3045	Yellow Beige-DK	170	66	163	64	157	61
3072	Beaver Gray-VY LT	233	91	224	88	215	85
3363	Pine Green-MD	7	2	7	2	7	2
3752	Antique Blue-VY LT	26	10	25	10	24	9
3753	Antique Blue-UL VY LT	22	9	21	8	21	8
3766	Peacock Blue-LT	50	19	48	19	46	18
3770	Tawny-VY LT	315	124	303	119	292	115
3772	Desert Sand-VY DK	577	227	555	218	534	210
3781	Mocha Brown-DK	90	35	87	34	83	33
3787	Brown Gray-DK	1342	528	1290	507	1243	489
3790	Beige Gray-UL DK	827	325	795	313	766	301
3799	Pewter Gray-VY DK	3358	1322	3229	1271	3109	1224
3823	Yellow-UL Pale	148	58	143	56	137	54
3826	Golden Brown	1	1	1	1	1	1
3827	Golden Brown-Pale	13	5	12	5	12	5
3828	Hazelnut Brown	269	105	258	101	249	97
3855	Autumn Gold-LT	4	1	4	1	4	1
3856	Mahogany-UL VY LT	54	21	52	20	50	19
3860	Cocoa	307	120	295	116	284	111
3862	Mocha Beige-DK	698	274	672	264	647	254
3863	Mocha Beige-MD	798	314	768	302	739	291
3864	Mocha Beige-LT	181	71	174	69	168	66
3865	Winter White	7	2	7	2	7	2

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
224	Shell Pink-VY LT	3	1	3	1	3	1
310	Black	1161	457	1084	427	1016	400
318	Steel Gray-LT	5	2	5	2	5	2
356	Terra Cotta-MD	195	77	182	71	170	67

367	Pistachio Green-DK	3	1	2	1	2	1
370	Mustard-MD	415	163	387	152	363	142
371	Mustard	24	9	23	8	21	8
407	Desert Sand-DK	125	49	116	46	109	43
413	Pewter Gray-DK	55	21	51	20	48	19
415	Pearl Gray	180	71	168	66	158	62
420	Hazelnut Brown-DK	486	191	454	178	425	167
434	Brown-LT	19	7	17	7	16	6
435	Brown-VY LT	215	84	201	79	188	74
436	Tan	296	116	277	109	259	102
437	Tan-LT	17	6	16	6	15	6
452	Shell Gray-MD	192	75	179	70	168	66
453	Shell Gray-LT	475	186	443	174	416	163
500	Blue Green-VY DK	82	32	76	30	71	28
501	Blue Green-DK	89	35	83	32	78	30
502	Blue Green	36	14	34	13	32	12
503	Blue Green-MD	22	8	20	8	19	7
519	Sky Blue	4	1	4	1	3	1
522	Fern Green	32	12	30	11	28	11
524	Fern Green-VY LT	181	71	169	67	159	62
535	Ash Gray-VY LT	297	116	277	109	260	102
543	Beige Brown-UL VY LT	170	67	159	62	149	59
610	Drab Brown-DK	158	62	148	58	138	54
611	Drab Brown	118	46	110	43	103	41
613	Drab Brown-VY LT	107	42	100	39	94	37
632	Desert Sand-UL VY DK	384	151	358	141	336	132
640	Beige Gray-VY DK	354	139	330	130	309	122
642	Beige Gray-DK	28	10	26	10	24	9
644	Beige Gray-MD	337	132	314	124	295	116
645	Beaver Gray-VY DK	489	192	457	179	428	168
647	Beaver Gray-MD	144	57	134	53	126	50
648	Beaver Gray-LT	460	181	429	169	402	158
677	Old Gold-VY LT	47	18	44	17	41	16
738	Tan-VY LT	105	41	98	38	92	36
739	Tan-UL VY LT	80	32	75	29	70	28
746	Off White	287	113	268	105	251	98
754	Peach-LT	17	6	16	6	15	6
762	Pearl Gray-VY LT	21	8	20	7	19	7
822	Beige Gray-LT	192	75	179	70	168	66
838	Beige Brown-VY DK	52	20	49	19	46	17
839	Beige Brown-DK	698	275	652	256	611	240
840	Beige Brown-MD	322	127	301	118	282	111
841	Beige Brown-LT	215	84	200	79	188	74
844	Beaver Brown-UL DK	2506	986	2339	920	2193	863
869	Hazelnut Brown-VY DK	41	15	38	14	35	14
924	Gray Green--VY DK	530	208	495	194	464	182
927	Gray Green-LT	201	78	187	73	176	69
928	Gray Green-VY LT	709	279	662	260	620	244
932	Antique Blue-LT	54	21	50	20	47	19
934	Black Avocado Green	82	32	77	30	72	28
935	Avocado Green-DK	208	82	194	76	182	71
938	Coffee Brown-UL DK	24	9	23	8	21	8
948	Peach-VY LT	37	14	35	13	33	12
951	Tawny-LT	98	38	91	35	86	33
977	Golden Brown-LT	19	7	17	7	16	6
3021	Brown Gray-VY DK	2140	842	1997	786	1873	737
3022	Brown Gray-MD	153	60	143	56	134	52
3023	Brown Gray-LT	162	64	151	59	142	56
3024	Brown Gray-VY LT	607	239	566	223	531	209

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3031	Mocha Brown-VY DK	108	42	101	40	95	37
3032	Mocha Brown-MD	314	123	293	115	275	108
3045	Yellow Beige-DK	152	59	142	55	133	52
3072	Beaver Gray-VY LT	208	82	194	76	182	71
3363	Pine Green-MD	6	2	6	2	6	2
3752	Antique Blue-VY LT	23	9	22	8	20	8
3753	Antique Blue-UL VY LT	20	8	19	7	17	7
3766	Peacock Blue-LT	44	17	41	16	39	15
3770	Tawny-VY LT	282	111	263	103	246	97
3772	Desert Sand-VY DK	515	203	481	189	451	177
3781	Mocha Brown-DK	80	32	75	29	70	28
3787	Brown Gray-DK	1198	471	1118	440	1049	412
3790	Beige Gray-UL DK	739	291	689	271	646	254
3799	Pewter Gray-VY DK	2998	1180	2798	1102	2624	1033
3823	Yellow-UL Pale	132	52	124	49	116	46
3826	Golden Brown	1	1	1	1	1	1
3827	Golden Brown-Pale	12	5	11	4	10	4
3828	Hazelnut Brown	240	94	224	88	210	82
3855	Autumn Gold-LT	4	1	4	1	3	1
3856	Mahogany-UL VY LT	48	19	45	17	42	16
3860	Cocoa	274	107	256	100	240	94
3862	Mocha Beige-DK	624	245	582	229	546	214
3863	Mocha Beige-MD	713	280	665	262	624	245
3864	Mocha Beige-LT	162	64	151	59	142	56
3865	Winter White	6	2	6	2	6	2

[illegible]

$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(16) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (17)$$



$$(17) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (18)$$

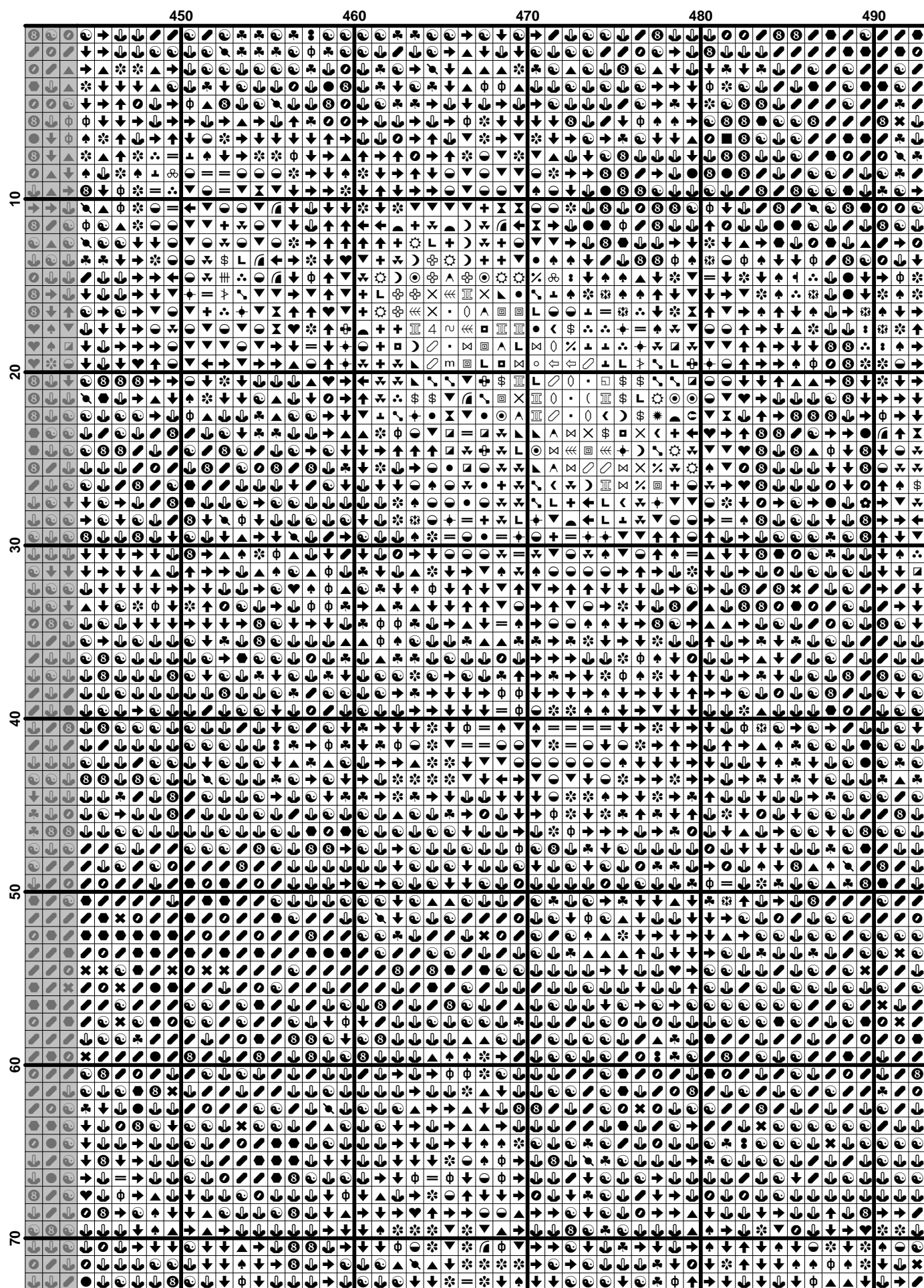
$$(18) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left( \sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

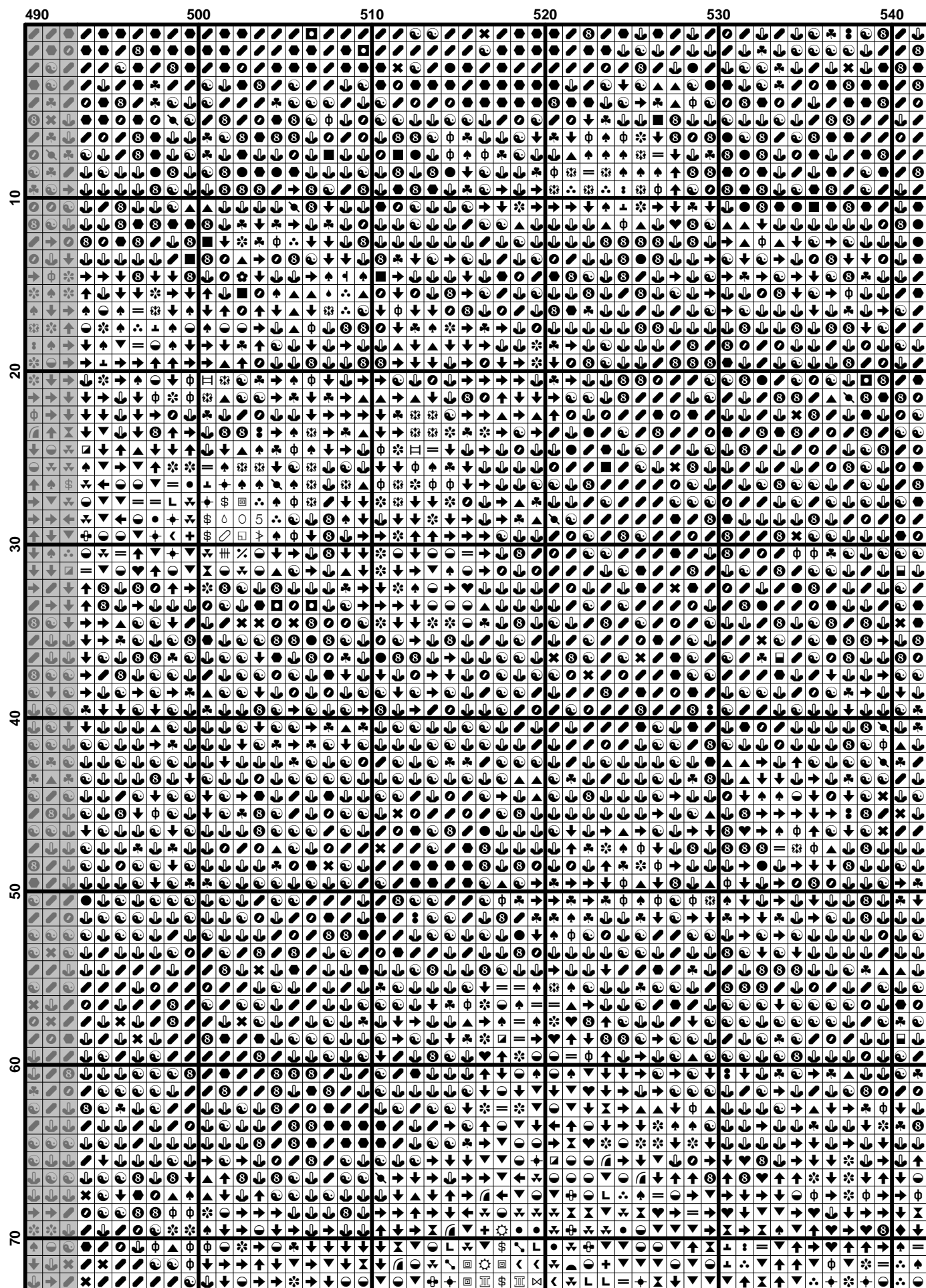
[illegible]

$$(20) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

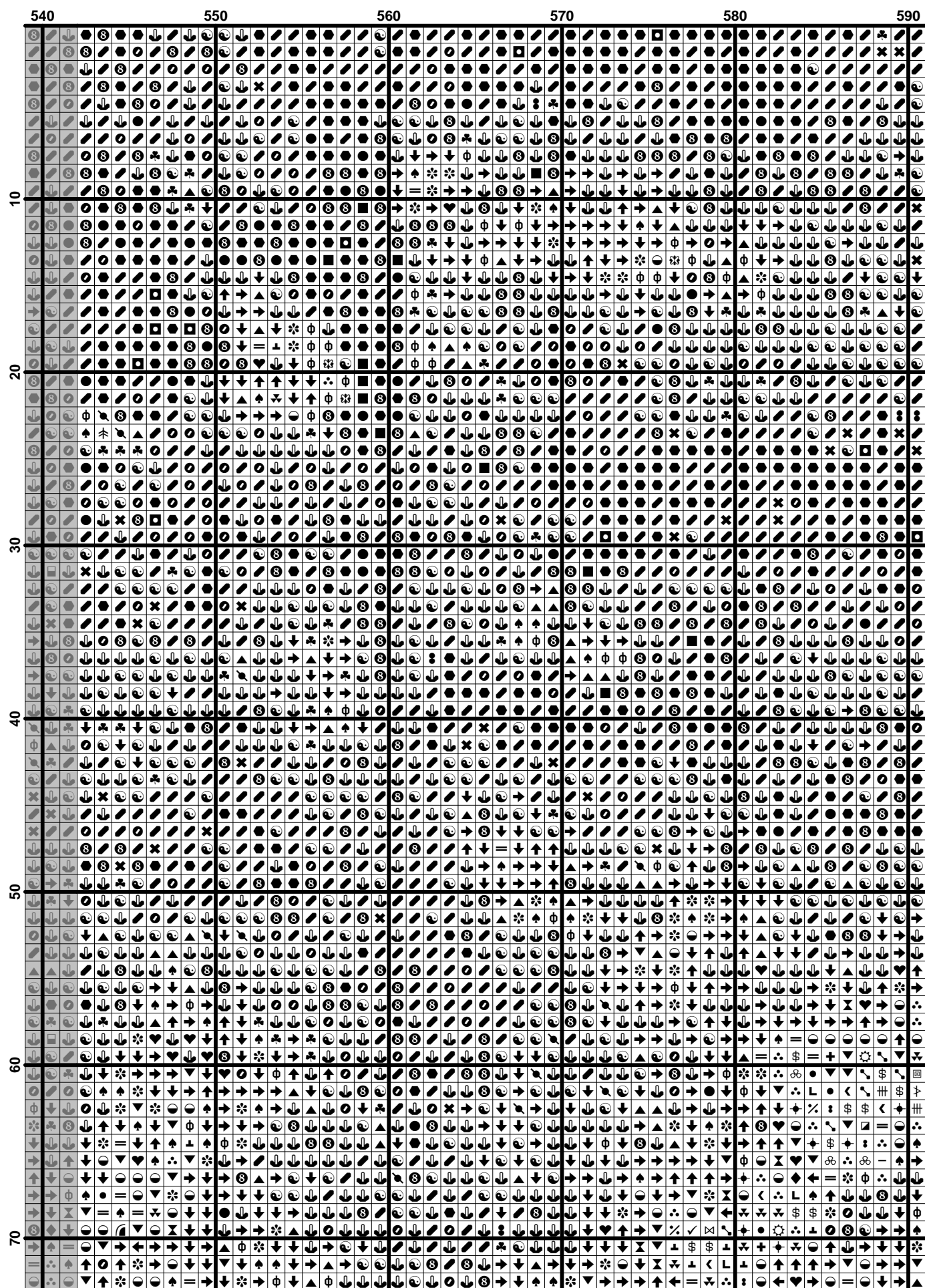
$$(21) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (22)$$

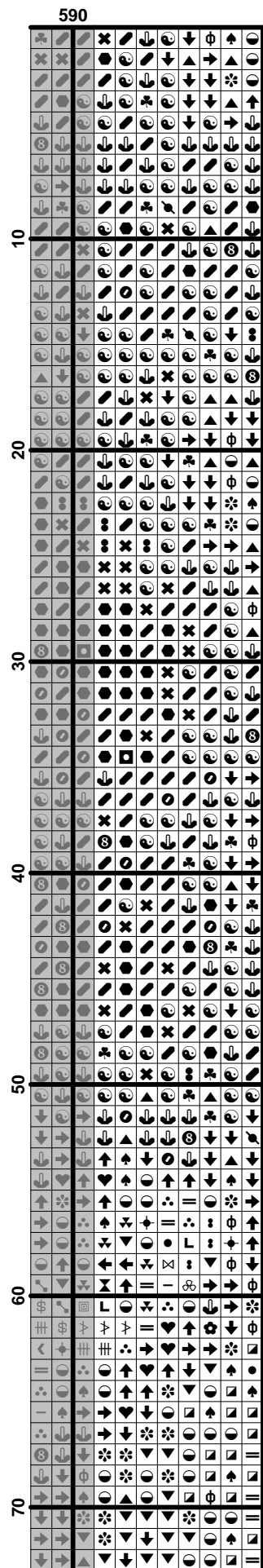
$$(22) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (23)$$







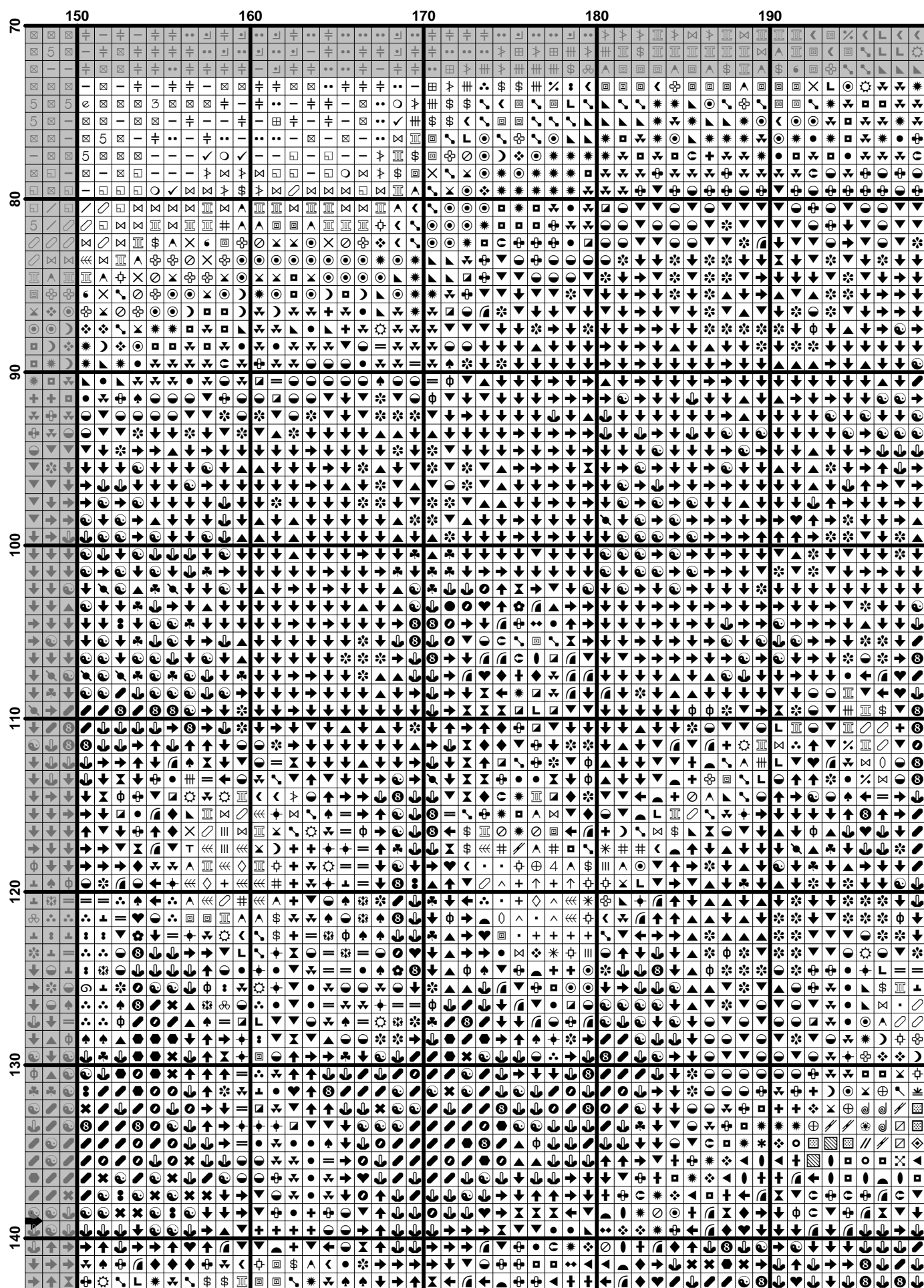




	10	20	30	40	50
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71	田	田	田	田	田
72	田	田	田	田	田
73	田	田	田	田	田
74	田	田	田	田	田
75	田	田	田	田	田
76	田	田	田	田	田
77	田	田	田	田	田
78	田	田	田	田	田
79	田	田	田	田	田
80	田	田	田	田	田
81	田	田	田	田	田
82	田	田	田	田	田
83	田	田	田	田	田
84	田	田	田	田	田
85	田	田	田	田	田
86	田	田	田	田	田
87	田	田	田	田	田
88	田	田	田	田	田
89	田	田	田	田	田
90	田	田	田	田	田
91	田	田	田	田	田
92	田	田	田	田	田
93	田	田	田	田	田
94	田	田	田	田	田
95	田	田	田	田	田
96	田	田	田	田	田
97	田	田	田	田	田
98	田	田	田	田	田
99	田	田	田	田	田
100	田	田	田	田	田
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102	田	田	田	田	田
103	田	田	田	田	田
104	田	田	田	田	田
105	田	田	田	田	田
106	田	田	田	田	田
107	田	田	田	田	田
108	田	田	田	田	田
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110	田	田	田	田	田
111	田	田	田	田	田
112	田	田	田	田	田
113	田	田	田	田	田
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116	田	田	田	田	田
117	田	田	田	田	田
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120	田	田	田	田	田
121	田	田	田	田	田
122	田	田	田	田	田
123	田	田	田	田	田
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125	田	田	田	田	田
126	田	田	田	田	田
127	田	田	田	田	田
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134	田	田	田	田	田
135	田	田	田	田	田
136	田	田	田	田	田
137	田	田	田	田	田
138	田	田	田	田	田
139	田	田	田	田	田
140	田	田	田	田	田

	50	60	70	80	90	100
70						
80						
90						
100						
110						
120						
130						
140						

	100	110	120	130	140	150
70						
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90						
100						
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120						
130						
140						

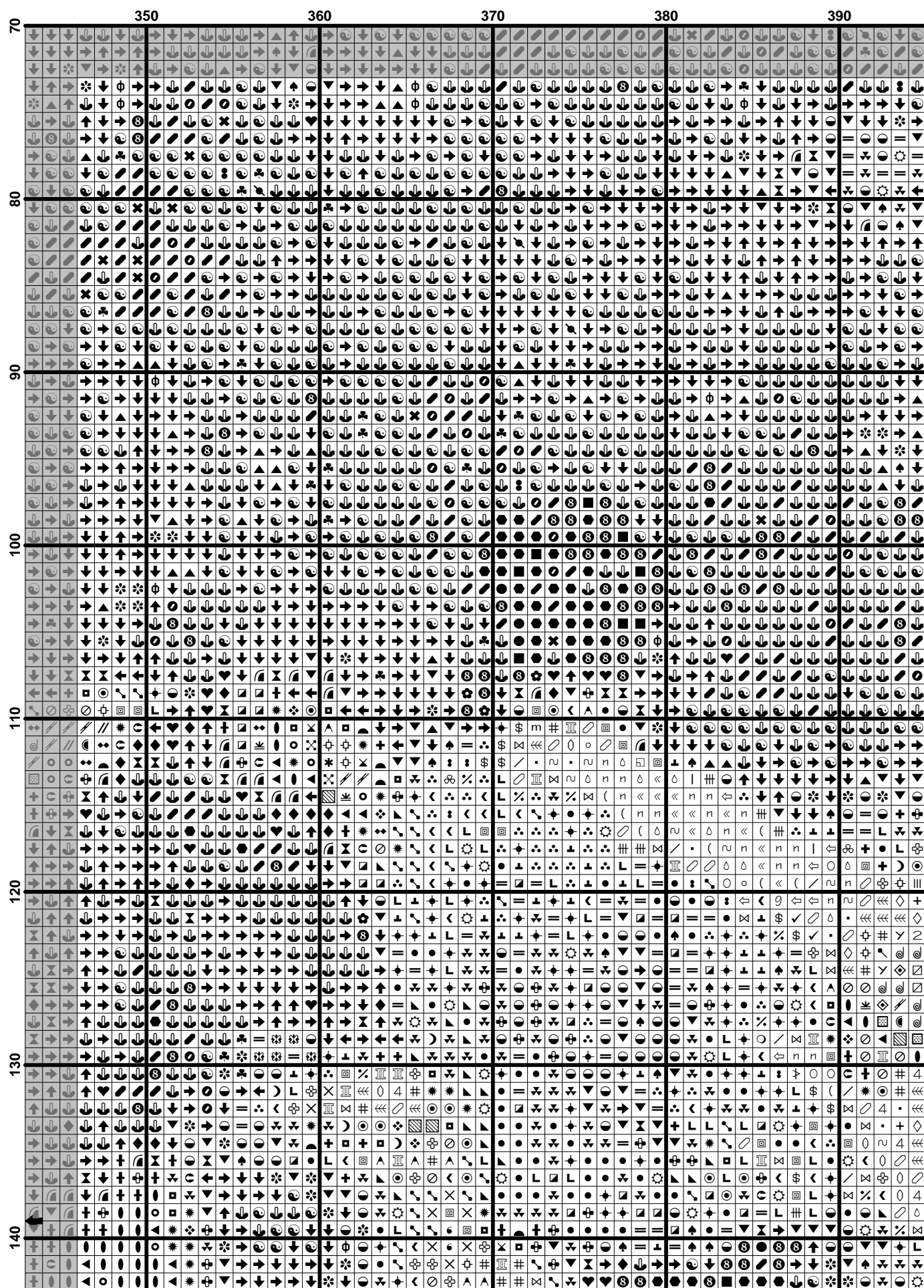


	200	210	220	230	240
70					
80					
90					
100					
110					
120					
130					
140					

	250	260	270	280	290
70	↓	↓	↓	↓	↓
80	↓	↓	↓	↓	↓
90	↓	↓	↓	↓	↓
100	↓	↓	↓	↓	↓
110	↓	↓	↓	↓	↓
120	↓	↓	↓	↓	↓
130	↓	↓	↓	↓	↓
140	↓	↓	↓	↓	↓

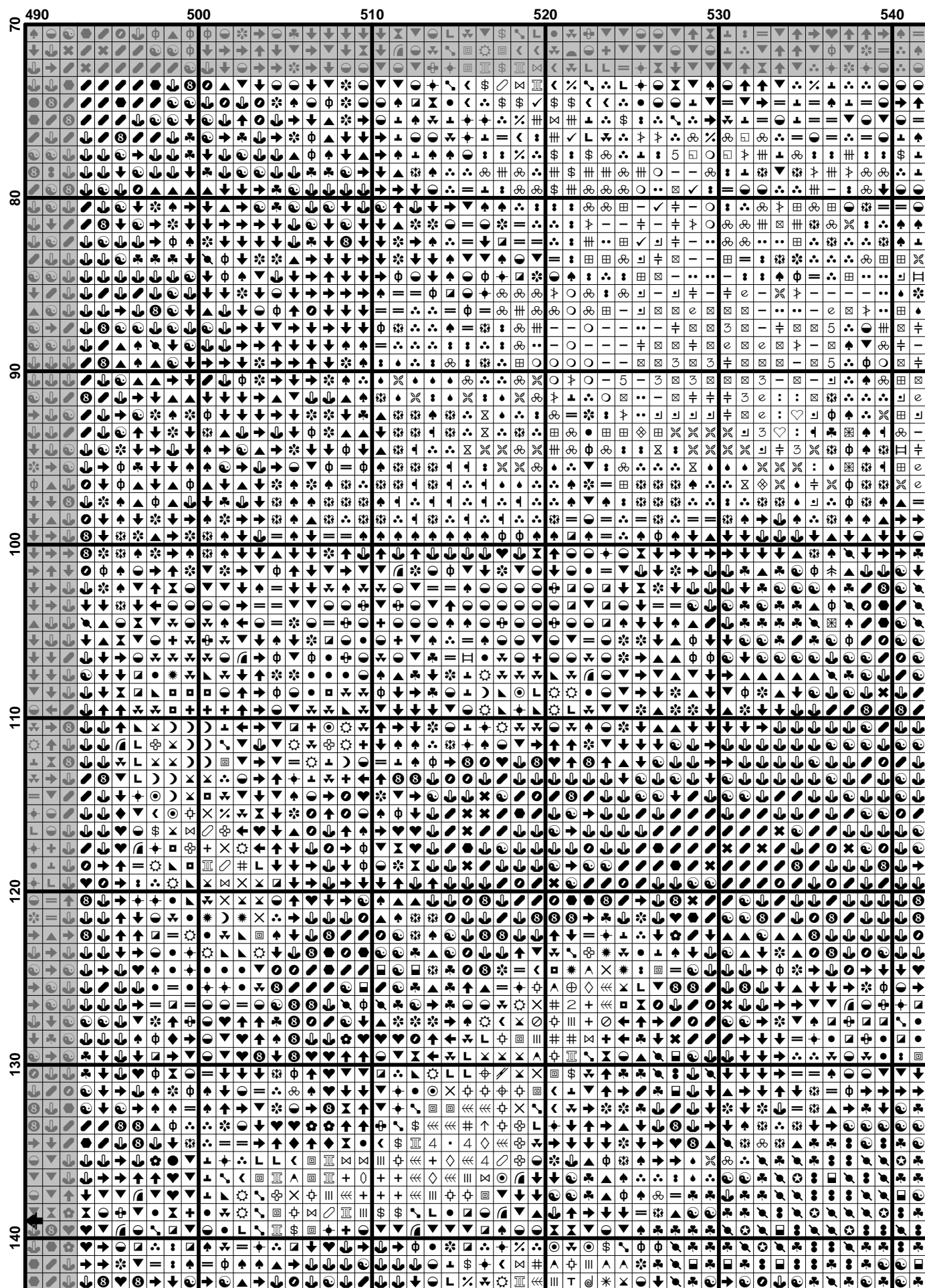


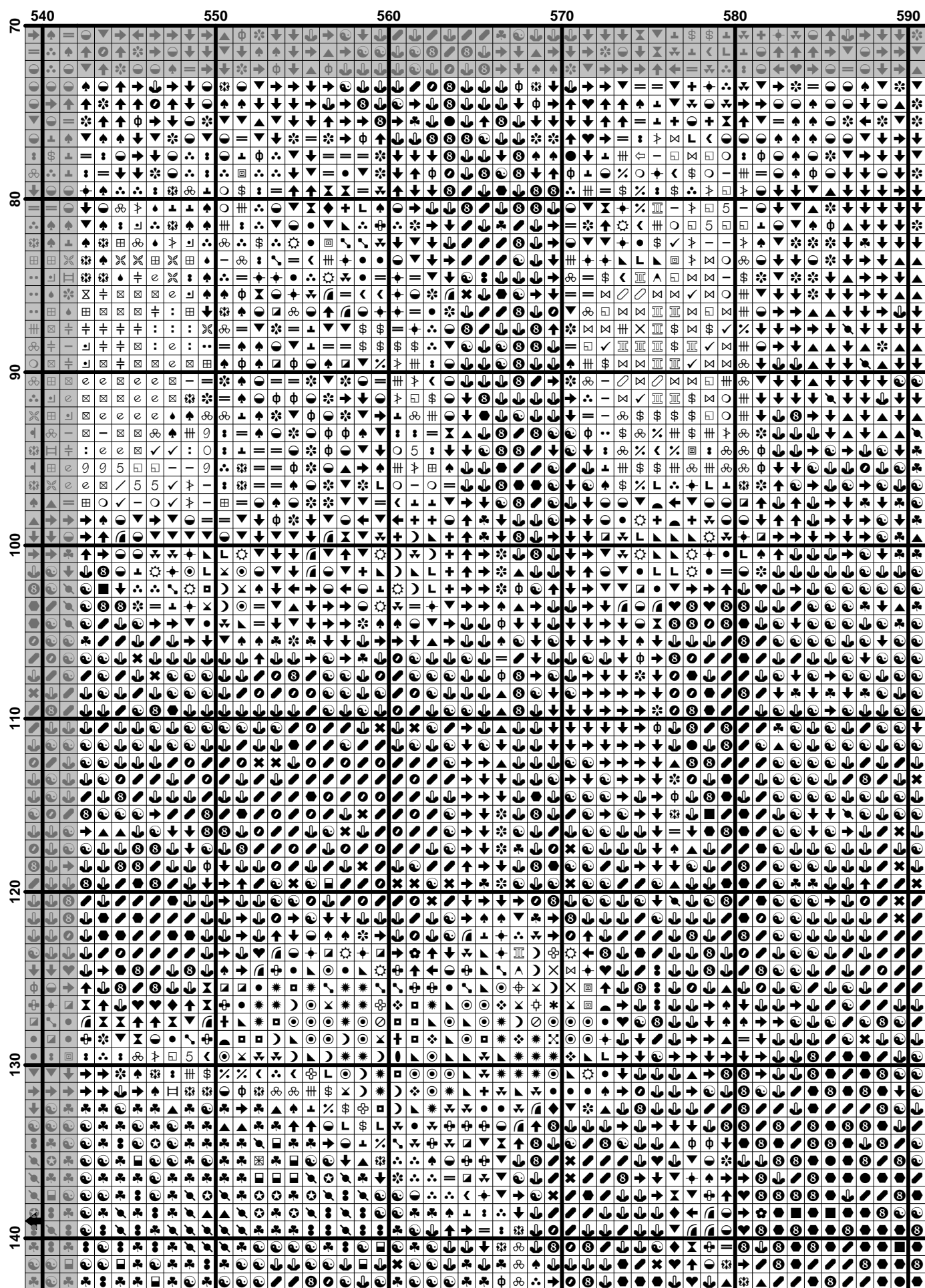
$$(33) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (34)$$

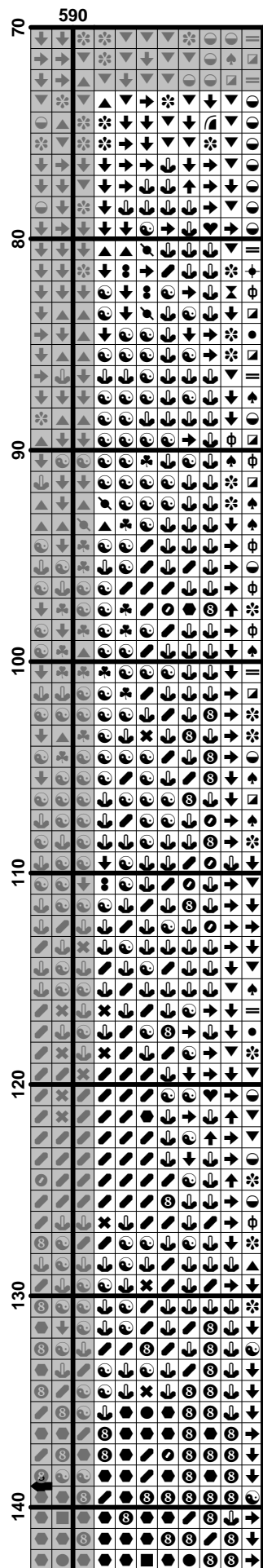


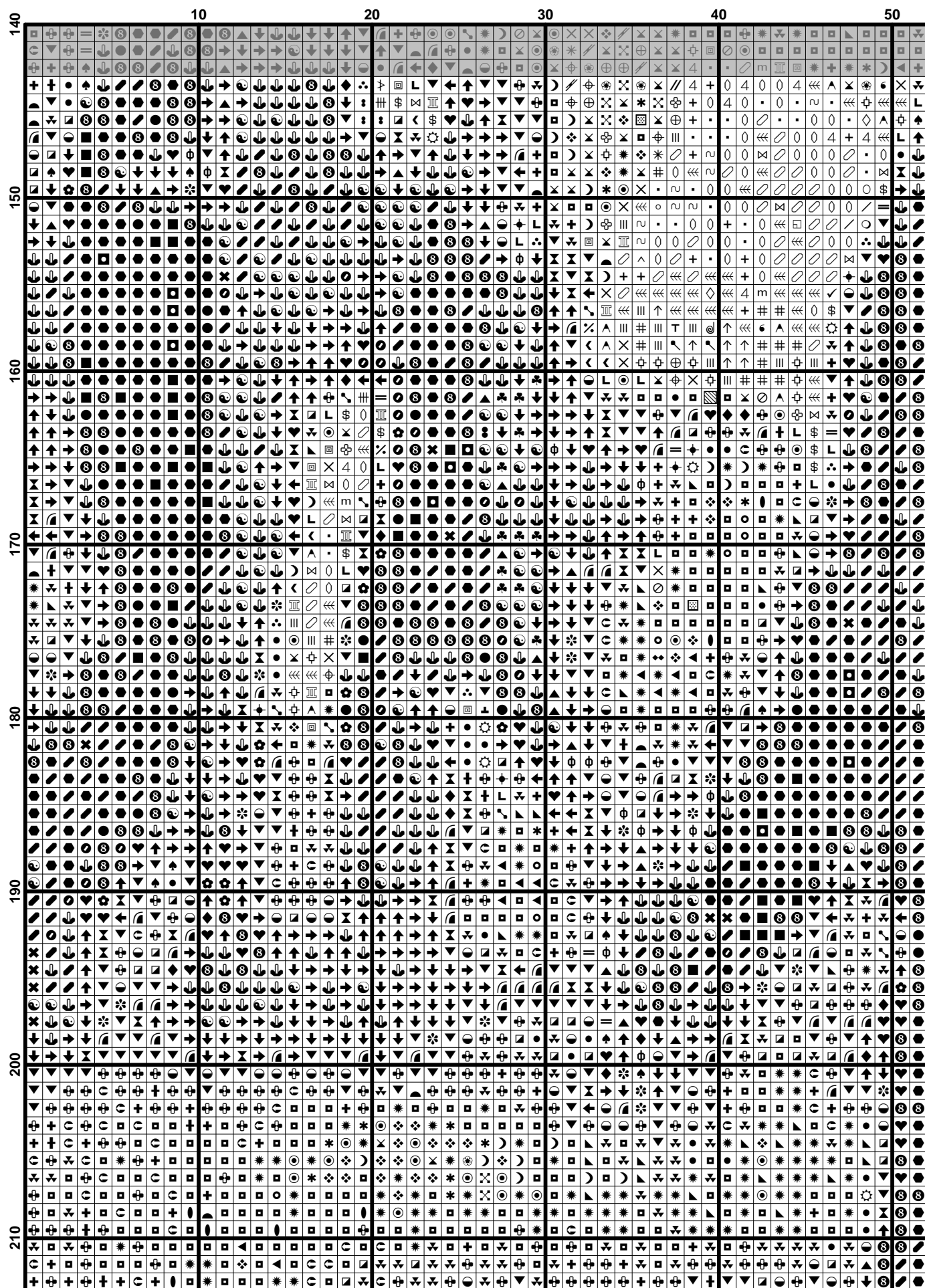
	400	410	420	430	440
70					
80					
90					
100					
110					
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	450										460										470										480										490																																																																																																																																																																																																																	
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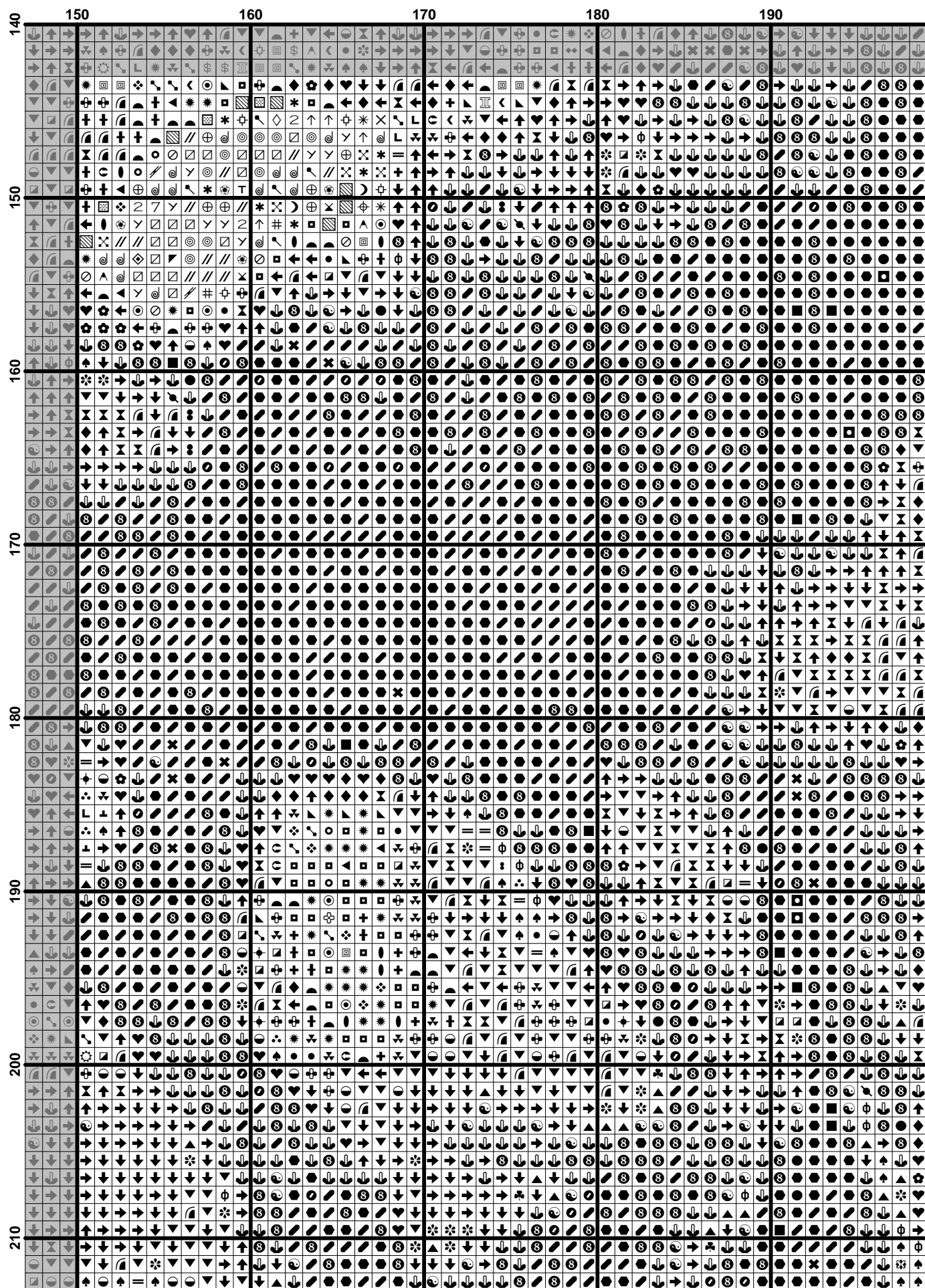


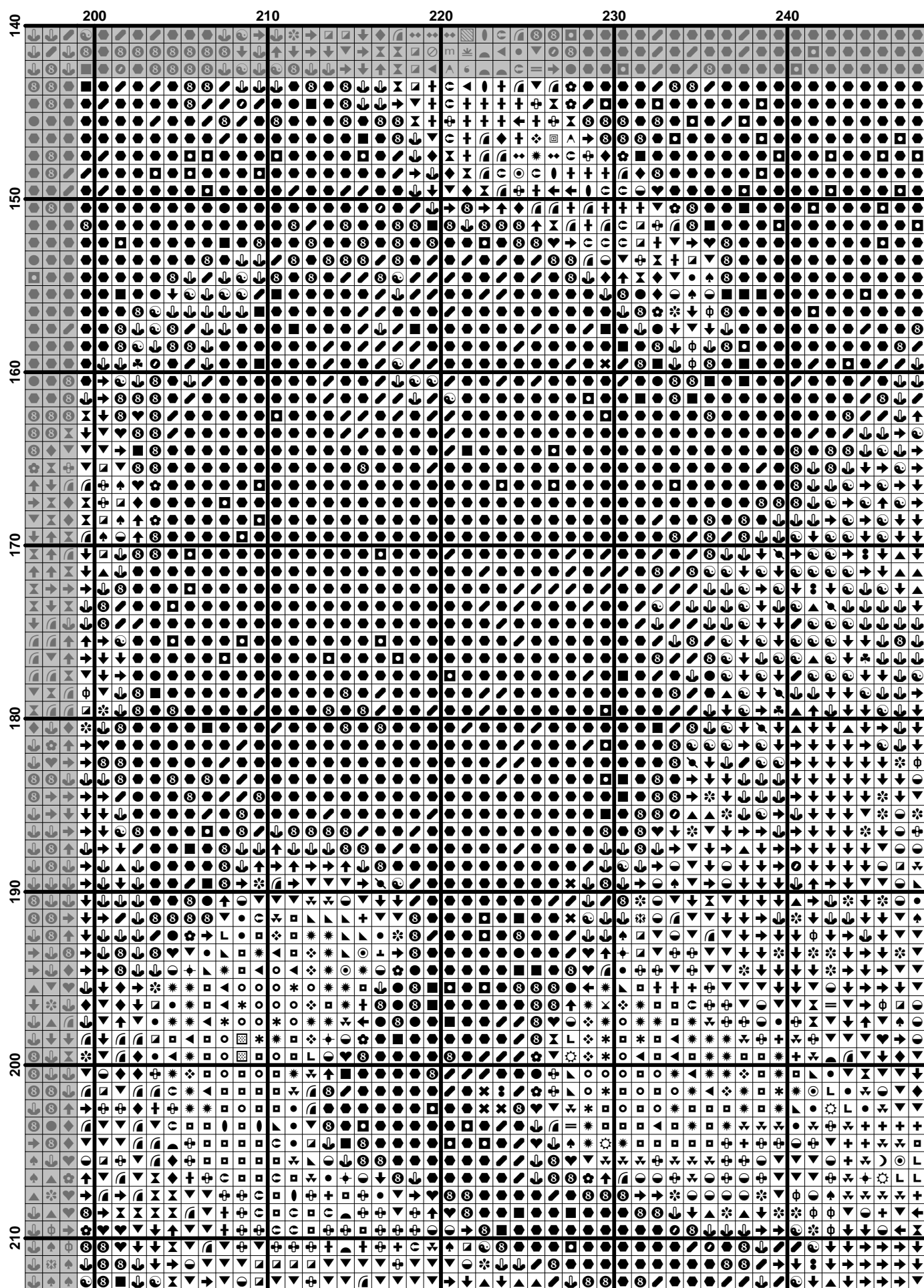


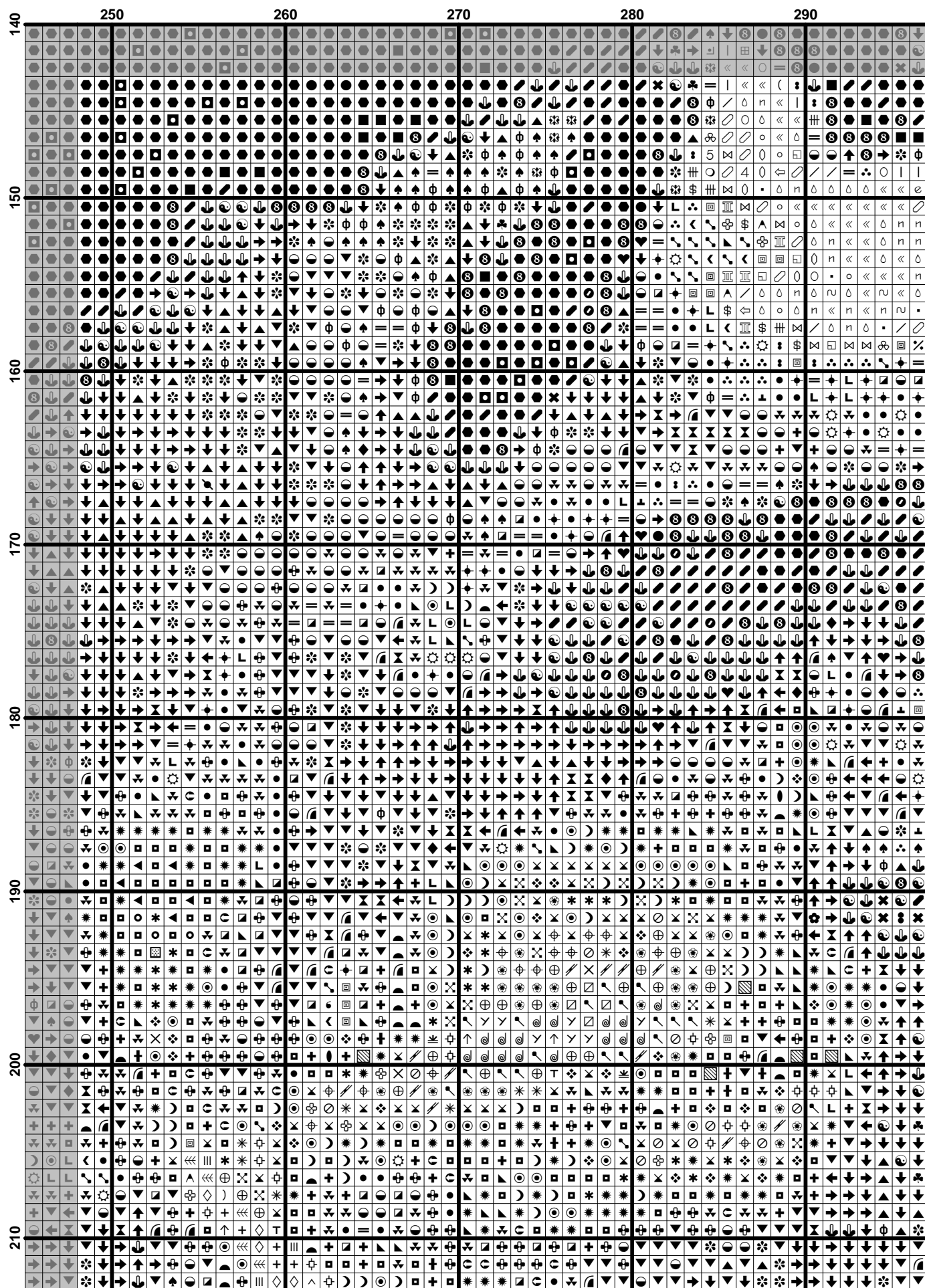


	50	60	70	80	90	100
140						
150						
160						
170						
180						
190						
200						
210						

	100	110	120	130	140	150
140						
150						
160						
170						
180						
190						
200						
210						







	300	310	320	330	340
140					
150					
160					
170					
180					
190					
200					
210					

	350	360	370	380	390
140	+	+	+	+	+
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+
200	+	+	+	+	+
210	+	+	+	+	+

	400	410	420	430	440
140					
150					
160					
170					
180					
190					
200					
210					



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

