

2015 Young Seamstress (small)



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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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Stitch Count	
Horizontal:	250
Vertical:	313

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:	46	17,83	57	22,33	40	15,6	50	19,54	36	13,875	45	17,375
Including Margins:	62	24	73	29	56	22	66	26	52	20	61	24
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	64	24,96	79	31,26	53	20,8	66	26,05	26	10,4	33	13,02
Including Margins:	80	31	95	38	69	27	82	33	42	17	49	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	25	9,98	31	12,5	24	9,6	30	12,02	23	9,24	29	11,57
Including Margins:	41	16	47	19	40	16	46	19	39	16	45	18
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	23	8,91	28	11,16	21	8,32	26	10,42	20	7,8	24	9,76
Including Margins:	39	15	44	18	37	15	42	17	36	14	40	16

Solid Color Stitches. Use two strands of the specified color for these stitches.

Symbol	DMC	Name
❖	221	Shell Pink-VY DK
=	223	Shell Pink-LT
↓	300	Mahogany-VY DK
⊕	317	Pewter Gray
↑	353	Peach
≡	355	Terra Cotta-DK
#	356	Terra Cotta-MD
⦿	413	Pewter Gray-DK
⊖	433	Brown-MD
↶	435	Brown-VY LT
≡≡	436	Tan
△	437	Tan-LT
/	452	Shell Gray-MD
)	453	Shell Gray-LT
●	500	Blue Green-VY DK
	543	Beige Brown-UL VY LT
⌘	610	Drab Brown-DK
★	632	Desert Sand-UL VY DK
7	647	Beaver Gray-MD
⇒	648	Beaver Gray-LT
⦿	720	Orange Spice-DK
3	729	Old Gold-MD
(739	Tan-UL VY LT
•	754	Peach-LT
:	758	Terra Cotta-VY LT
⚡	780	Topaz-UL VY DK
⌘	782	Topaz-DK
—	783	Topaz-MD
■	797	Royal Blue
1	819	Baby Pink-LT
✕	825	Blue-DK
▶	829	Golden Olive-VY DK
//	830	Golden Olive-DK
➡	838	Beige Brown-VY DK
⦿	839	Beige Brown-DK
⦿	840	Beige Brown-MD
⦿	841	Beige Brown-LT
↑	898	Coffee Brown-VY DK
▲	919	Red Copper
⦿	924	Gray Green--VY DK
✕	931	Antique Blue-MD
⦿	938	Coffee Brown-UL DK
■	939	Navy Blue-VY DK
>	945	Tawny
~	948	Peach-VY LT
●	975	Golden Brown-DK
†	3021	Brown Gray-VY DK
5	3023	Brown Gray-LT
⦿	3041	Antique Violet-MD
⦿	3064	Desert Sand
⦿	3685	Mauve-DK
▲	3721	Shell Pink-DK
❖	3740	Antique Violet-DK

▲	3768	Gray Green-DK
«	3770	Tawny-VY LT
☼	3772	Desert Sand-VY DK
••	3776	Mahogany-LT
∨	3779	Terra Cotta-UL VY LT
☾	3787	Brown Gray-DK
✕	3799	Pewter Gray-VY DK
L	3827	Golden Brown-Pale
☿	3828	Hazelnut Brown
☼	3829	Old Gold-VY DK
‡	3830	Terra Cotta-MD
√	3852	Straw-VY DK
<	3856	Mahogany-UL VY LT
2	3861	Cocoa-LT
☿	3862	Mocha Beige-DK
9	3864	Mocha Beige-LT
u	3865	Winter White
o	3866	Mocha Brown-UL VY LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
▲	221	Shell Pink-VY DK	300	Mahogany-VY DK
▣	221	Shell Pink-VY DK	919	Red Copper
×	223	Shell Pink-LT	451	Shell Gray-DK
▲	300	Mahogany-VY DK	433	Brown-MD
☼	300	Mahogany-VY DK	632	Desert Sand-UL VY DK
▣	300	Mahogany-VY DK	898	Coffee Brown-VY DK
☼	300	Mahogany-VY DK	975	Golden Brown-DK
☼	310	Black	3799	Pewter Gray-VY DK
✱	312	Baby Blue-VY DK	3768	Gray Green-DK
L	315	Antique Mauve-VY DK	3726	Antique Mauve-DK
☼	347	Salmon-VY DK	349	Coral-DK
☼	347	Salmon-VY DK	355	Terra Cotta-DK
☼	349	Coral-DK	720	Orange Spice-DK
✱	349	Coral-DK	817	Coral Red-VY DK
•	351	Coral	3778	Terra Cotta-LT
▷	352	Coral-LT	754	Peach-LT
∞	353	Peach	3823	Yellow-UL Pale
☼	356	Terra Cotta-MD	435	Brown-VY LT
∨	356	Terra Cotta-MD	3772	Desert Sand-VY DK
☼	407	Desert Sand-DK	738	Tan-VY LT
4	407	Desert Sand-DK	3827	Golden Brown-Pale
☼	407	Desert Sand-DK	3856	Mahogany-UL VY LT
☼	407	Desert Sand-DK	3864	Mocha Beige-LT
☼	413	Pewter Gray-DK	823	Navy Blue-DK
☼	413	Pewter Gray-DK	924	Gray Green--VY DK
☼	414	Steel Gray-DK	931	Antique Blue-MD
☼	420	Hazelnut Brown-DK	435	Brown-VY LT
III	420	Hazelnut Brown-DK	612	Drab Brown-LT
☼	420	Hazelnut Brown-DK	632	Desert Sand-UL VY DK
☼	420	Hazelnut Brown-DK	3772	Desert Sand-VY DK
•	420	Hazelnut Brown-DK	3830	Terra Cotta-MD
☼	433	Brown-MD	780	Topaz-UL VY DK

∇	435	Brown-VY LT	436	Tan
☐	435	Brown-VY LT	632	Desert Sand-UL VY DK
⋈	435	Brown-VY LT	758	Terra Cotta-VY LT
☉	435	Brown-VY LT	3772	Desert Sand-VY DK
⌞	435	Brown-VY LT	3830	Terra Cotta-MD
∩	435	Brown-VY LT	3862	Mocha Beige-DK
☐	436	Tan	977	Golden Brown-LT
△	436	Tan	3776	Mahogany-LT
+	436	Tan	3778	Terra Cotta-LT
⊖	436	Tan	3827	Golden Brown-Pale
◇	437	Tan-LT	3045	Yellow Beige-DK
▲	451	Shell Gray-DK	840	Beige Brown-MD
◆	451	Shell Gray-DK	3041	Antique Violet-MD
±	452	Shell Gray-MD	648	Beaver Gray-LT
●	610	Drab Brown-DK	820	Royal Blue-VY DK
◆	610	Drab Brown-DK	3781	Mocha Brown-DK
♣	610	Drab Brown-DK	3787	Brown Gray-DK
✓	612	Drab Brown-LT	3772	Desert Sand-VY DK
::	612	Drab Brown-LT	3778	Terra Cotta-LT
☐	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
➤	632	Desert Sand-UL VY DK	840	Beige Brown-MD
◎	632	Desert Sand-UL VY DK	3787	Brown Gray-DK
⊕	640	Beige Gray-VY DK	3740	Antique Violet-DK
☪	720	Orange Spice-DK	817	Coral Red-VY DK
⋈	720	Orange Spice-DK	919	Red Copper
⌘	720	Orange Spice-DK	920	Copper-MD
○	729	Old Gold-MD	977	Golden Brown-LT
⊕	729	Old Gold-MD	3821	Straw
☆	729	Old Gold-MD	3828	Hazelnut Brown
○	738	Tan-VY LT	758	Terra Cotta-VY LT
♡	738	Tan-VY LT	3856	Mahogany-UL VY LT
○	738	Tan-VY LT	3864	Mocha Beige-LT
□	739	Tan-UL VY LT	945	Tawny
⌞	758	Terra Cotta-VY LT	3778	Terra Cotta-LT
☪	780	Topaz-UL VY DK	782	Topaz-DK
▼	780	Topaz-UL VY DK	829	Golden Olive-VY DK
◆	780	Topaz-UL VY DK	869	Hazelnut Brown-VY DK
✕	780	Topaz-UL VY DK	920	Copper-MD
▲	780	Topaz-UL VY DK	975	Golden Brown-DK
✕	780	Topaz-UL VY DK	3829	Old Gold-VY DK
⌞	782	Topaz-DK	3776	Mahogany-LT
○	782	Topaz-DK	3852	Straw-VY DK
●	817	Coral Red-VY DK	919	Red Copper
●	823	Navy Blue-DK	924	Gray Green--VY DK
●	823	Navy Blue-DK	938	Coffee Brown-UL DK
♥	823	Navy Blue-DK	3799	Pewter Gray-VY DK
☼	829	Golden Olive-VY DK	830	Golden Olive-DK
▼	829	Golden Olive-VY DK	898	Coffee Brown-VY DK
☼	829	Golden Olive-VY DK	936	Avocado Green-VY DK
♣	829	Golden Olive-VY DK	3781	Mocha Brown-DK
✱	829	Golden Olive-VY DK	3829	Old Gold-VY DK
⌘	830	Golden Olive-DK	3781	Mocha Brown-DK
⌘	840	Beige Brown-MD	3862	Mocha Beige-DK
☼	844	Beaver Brown-UL DK	3787	Brown Gray-DK
♣	898	Coffee Brown-VY DK	936	Avocado Green-VY DK
☼	898	Coffee Brown-VY DK	3781	Mocha Brown-DK
♣	919	Red Copper	920	Copper-MD
♣	920	Copper-MD	921	Copper
+	924	Gray Green--VY DK	3768	Gray Green-DK

♣	924	Gray Green--VY DK	3799	Pewter Gray-VY DK
‡	926	Gray Green-MD	931	Antique Blue-MD
⊕	926	Gray Green-MD	3768	Gray Green-DK
✚	930	Antique Blue-DK	3768	Gray Green-DK
◀	931	Antique Blue-MD	3768	Gray Green-DK
■	934	Black Avocado Green	3371	Black Brown
✕	934	Black Avocado Green	3799	Pewter Gray-VY DK
↓	935	Avocado Green-DK	3031	Mocha Brown-VY DK
●	938	Coffee Brown-UL DK	3371	Black Brown
☯	938	Coffee Brown-UL DK	3685	Mauve-DK
π	948	Peach-VY LT	3770	Tawny-VY LT
◊	948	Peach-VY LT	3823	Yellow-UL Pale
←	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
▨	3021	Brown Gray-VY DK	3051	Green Gray-DK
◆	3021	Brown Gray-VY DK	3371	Black Brown
◀	3362	Pine Green-DK	3781	Mocha Brown-DK
■	3685	Mauve-DK	3721	Shell Pink-DK
▣	3721	Shell Pink-DK	3863	Mocha Beige-MD
‡	3772	Desert Sand-VY DK	3778	Terra Cotta-LT
⌚	3778	Terra Cotta-LT	3827	Golden Brown-Pale
↔	3778	Terra Cotta-LT	3856	Mahogany-UL VY LT
?	3778	Terra Cotta-LT	3864	Mocha Beige-LT
►	3781	Mocha Brown-DK	3787	Brown Gray-DK
z	3787	Brown Gray-DK	3862	Mocha Beige-DK
^	3823	Yellow-UL Pale	3824	Apricot-LT
↑	3828	Hazelnut Brown	3859	Rosewood-LT
田	3828	Hazelnut Brown	3862	Mocha Beige-DK
m	3859	Rosewood-LT	3864	Mocha Beige-LT

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	
221	Shell Pink-VY DK	338	133	322	126	289	113
223	Shell Pink-LT	8	3	8	3	7	2
300	Mahogany-VY DK	528	207	503	198	453	178
310	Black	405	159	386	151	347	136
312	Baby Blue-VY DK	7	2	6	2	6	2
315	Antique Mauve-VY DK	3	1	3	1	2	1
317	Pewter Gray	10	3	9	3	8	3
347	Salmon-VY DK	45	17	42	16	38	14
349	Coral-DK	37	14	36	14	32	12
351	Coral	1	1	1	1	1	1
352	Coral-LT	15	5	15	5	13	5
353	Peach	90	35	85	33	77	30
355	Terra Cotta-DK	146	57	139	54	125	49
356	Terra Cotta-MD	19	7	18	7	16	6
407	Desert Sand-DK	59	23	56	22	50	19
413	Pewter Gray-DK	64	25	61	24	55	21
414	Steel Gray-DK	14	5	14	5	12	4
420	Hazelnut Brown-DK	82	32	78	30	70	27
433	Brown-MD	118	46	113	44	101	39
435	Brown-VY LT	111	43	106	41	95	37
436	Tan	47	18	45	17	41	16
437	Tan-LT	33	12	31	12	28	11
451	Shell Gray-DK	13	5	13	5	12	4
452	Shell Gray-MD	15	5	14	5	13	5
453	Shell Gray-LT	15	5	14	5	13	5
500	Blue Green-VY DK	180	70	171	67	154	60
543	Beige Brown-UL VY LT	6	2	5	1	5	1
610	Drab Brown-DK	1058	416	1008	396	907	357
612	Drab Brown-LT	54	21	52	20	47	18
632	Desert Sand-UL VY DK	221	87	210	82	189	74
640	Beige Gray-VY DK	20	7	19	7	17	6
647	Beaver Gray-MD	7	2	7	2	6	2
648	Beaver Gray-LT	13	5	12	4	11	4
720	Orange Spice-DK	224	88	213	83	192	75
729	Old Gold-MD	28	11	27	10	24	9
738	Tan-VY LT	86	33	82	32	74	29
739	Tan-UL VY LT	16	6	15	5	14	5
754	Peach-LT	86	33	82	32	74	29
758	Terra Cotta-VY LT	100	39	95	37	86	33
780	Topaz-UL VY DK	220	86	209	82	188	74
782	Topaz-DK	48	18	46	18	41	16
783	Topaz-MD	10	3	9	3	8	3
797	Royal Blue	1	1	1	1	1	1
817	Coral Red-VY DK	275	108	262	103	236	92
819	Baby Pink-LT	12	4	11	4	10	3
820	Royal Blue-VY DK	6	2	5	1	5	1
823	Navy Blue-DK	779	306	742	292	668	262
825	Blue-DK	1	1	1	1	1	1
829	Golden Olive-VY DK	2740	1078	2609	1027	2348	924
830	Golden Olive-DK	1245	490	1186	466	1067	420
838	Beige Brown-VY DK	62	24	59	23	53	20
839	Beige Brown-DK	26	10	25	9	22	8
840	Beige Brown-MD	38	14	36	14	33	12

841	Beige Brown-LT	23	9	22	8	20	7
844	Beaver Brown-UL DK	4	1	3	1	3	1
869	Hazelnut Brown-VY DK	30	11	28	11	26	10
898	Coffee Brown-VY DK	2623	1032	2499	983	2249	885
919	Red Copper	732	288	697	274	627	246
920	Copper-MD	113	44	108	42	97	38
921	Copper	3	1	3	1	3	1
924	Gray Green--VY DK	1549	609	1476	581	1328	522
926	Gray Green-MD	97	38	93	36	83	32
930	Antique Blue-DK	47	18	44	17	40	15
931	Antique Blue-MD	127	50	121	47	109	42
934	Black Avocado Green	130	51	124	48	112	44
935	Avocado Green-DK	11	4	10	3	9	3
936	Avocado Green-VY DK	968	381	922	362	830	326
938	Coffee Brown-UL DK	581	228	554	218	498	196
939	Navy Blue-VY DK	258	101	245	96	221	87
945	Tawny	102	40	97	38	87	34
948	Peach-VY LT	111	43	106	41	95	37
975	Golden Brown-DK	153	60	146	57	131	51
977	Golden Brown-LT	6	2	5	1	5	1
3021	Brown Gray-VY DK	83	32	79	31	71	27
3023	Brown Gray-LT	9	3	8	3	8	3
3031	Mocha Brown-VY DK	29	11	28	11	25	9
3041	Antique Violet-MD	6	2	6	2	5	1
3045	Yellow Beige-DK	12	4	12	4	11	4
3051	Green Gray-DK	6	2	6	2	5	1
3064	Desert Sand	28	11	27	10	24	9
3362	Pine Green-DK	6	2	6	2	5	1
3371	Black Brown	125	49	119	46	107	42
3685	Mauve-DK	35	13	33	12	30	11
3721	Shell Pink-DK	26	10	25	9	23	9
3726	Antique Mauve-DK	3	1	3	1	2	1
3740	Antique Violet-DK	25	9	24	9	21	8
3768	Gray Green-DK	443	174	422	166	379	149
3770	Tawny-VY LT	160	62	152	59	137	53
3772	Desert Sand-VY DK	139	54	132	51	119	46
3776	Mahogany-LT	10	3	10	3	9	3
3778	Terra Cotta-LT	85	33	81	31	73	28
3779	Terra Cotta-UL VY LT	28	11	27	10	24	9
3781	Mocha Brown-DK	773	304	736	289	663	261
3787	Brown Gray-DK	657	258	626	246	564	222
3799	Pewter Gray-VY DK	967	380	921	362	829	326
3821	Straw	2	1	2	1	2	1
3823	Yellow-UL Pale	123	48	118	46	106	41
3824	Apricot-LT	41	16	39	15	35	13
3827	Golden Brown-Pale	20	7	19	7	17	6
3828	Hazelnut Brown	71	27	68	26	61	24
3829	Old Gold-VY DK	83	32	79	31	71	27
3830	Terra Cotta-MD	14	5	14	5	12	4
3852	Straw-VY DK	18	7	17	6	15	5
3856	Mahogany-UL VY LT	78	30	74	29	67	26
3859	Rosewood-LT	45	17	43	16	38	14
3861	Cocoa-LT	15	5	14	5	13	5
3862	Mocha Beige-DK	446	175	425	167	382	150
3863	Mocha Beige-MD	13	5	12	4	11	4
3864	Mocha Beige-LT	48	18	46	18	42	16
3865	Winter White	4	1	4	1	3	1
3866	Mocha Brown-UL VY LT	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	
221	Shell Pink-VY DK	520	203	434	170	217	85
223	Shell Pink-LT	13	4	11	3	5	2
300	Mahogany-VY DK	815	320	680	267	340	134
310	Black	625	245	521	204	260	102
312	Baby Blue-VY DK	11	4	9	3	5	2
315	Antique Mauve-VY DK	4	2	3	2	2	1
317	Pewter Gray	14	5	12	5	6	2
347	Salmon-VY DK	68	25	57	21	29	11
349	Coral-DK	58	22	48	18	24	9
351	Coral	2	2	2	2	1	1
352	Coral-LT	23	9	20	8	10	4
353	Peach	139	54	116	45	58	23
355	Terra Cotta-DK	225	88	188	74	94	37
356	Terra Cotta-MD	29	11	24	9	12	5
407	Desert Sand-DK	90	34	75	29	38	14
413	Pewter Gray-DK	99	38	83	32	41	16
414	Steel Gray-DK	22	7	18	6	9	3
420	Hazelnut Brown-DK	126	49	105	41	53	20
433	Brown-MD	182	70	152	59	76	29
435	Brown-VY LT	171	67	143	56	71	28
436	Tan	74	29	62	24	31	12
437	Tan-LT	50	20	42	17	21	8
451	Shell Gray-DK	22	7	18	6	9	3
452	Shell Gray-MD	23	9	20	8	10	4
453	Shell Gray-LT	23	9	20	8	10	4
500	Blue Green-VY DK	277	108	231	90	116	45
543	Beige Brown-UL VY LT	9	2	8	2	4	1
610	Drab Brown-DK	1633	643	1361	536	680	268
612	Drab Brown-LT	85	32	71	27	35	14
632	Desert Sand-UL VY DK	340	133	284	111	142	56
640	Beige Gray-VY DK	31	11	26	9	13	5
647	Beaver Gray-MD	11	4	9	3	5	2
648	Beaver Gray-LT	20	7	17	6	8	3
720	Orange Spice-DK	346	135	288	113	144	56
729	Old Gold-MD	43	16	36	14	18	7
738	Tan-VY LT	133	52	111	44	56	22
739	Tan-UL VY LT	25	9	21	8	11	4
754	Peach-LT	133	52	111	44	56	22
758	Terra Cotta-VY LT	155	59	129	50	65	25
780	Topaz-UL VY DK	338	133	282	111	141	56
782	Topaz-DK	74	29	62	24	31	12
783	Topaz-MD	14	5	12	5	6	2
797	Royal Blue	2	2	2	2	1	1
817	Coral Red-VY DK	425	166	354	138	177	69
819	Baby Pink-LT	18	5	15	5	8	2
820	Royal Blue-VY DK	9	2	8	2	4	1
823	Navy Blue-DK	1202	472	1002	393	501	197
825	Blue-DK	2	2	2	2	1	1
829	Golden Olive-VY DK	4226	1663	3522	1386	1761	693
830	Golden Olive-DK	1921	756	1601	630	800	315
838	Beige Brown-VY DK	95	36	80	30	40	15
839	Beige Brown-DK	40	14	33	12	17	6
840	Beige Brown-MD	59	22	50	18	25	9

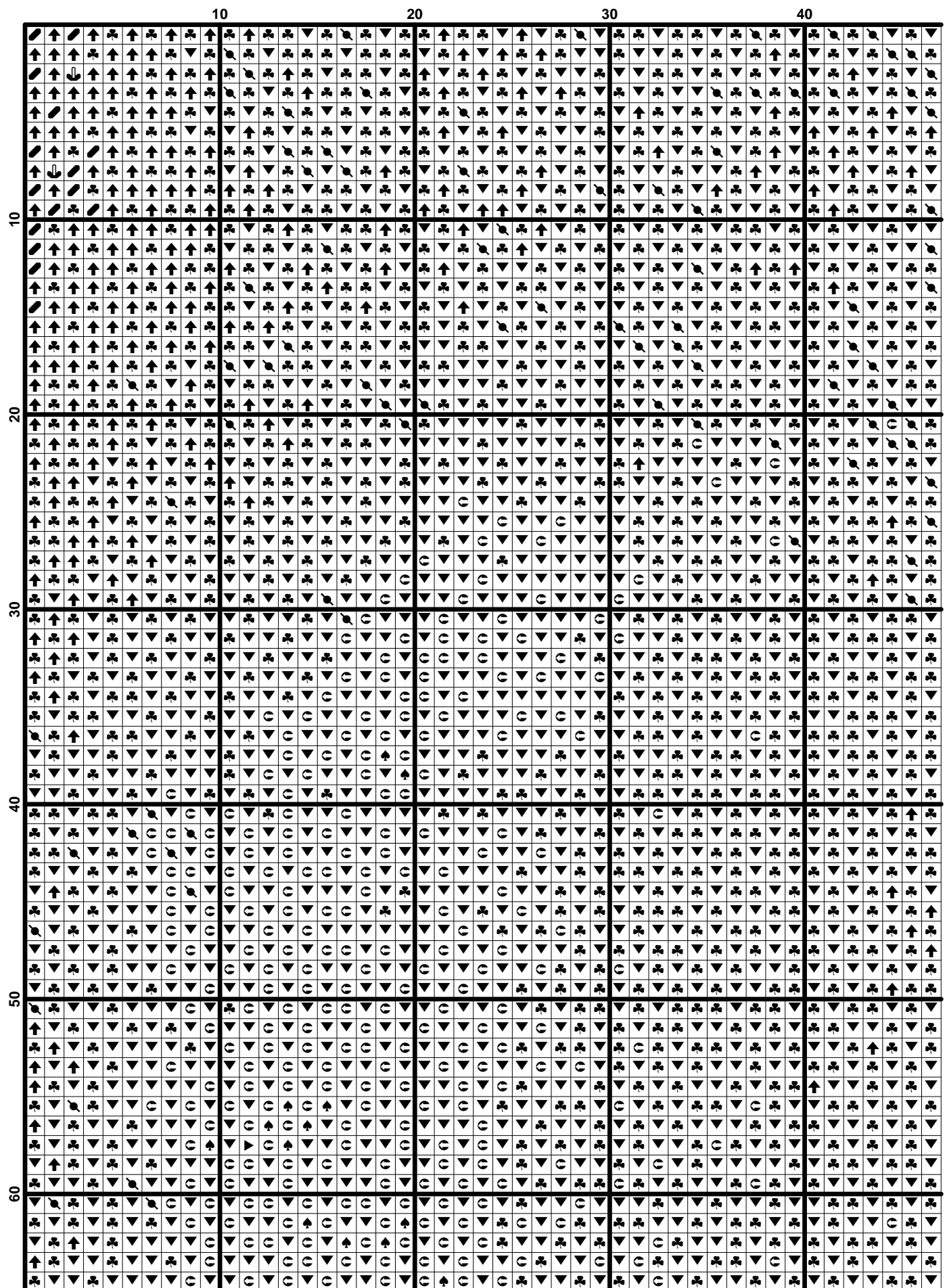
841	Beige Brown-LT	36	13	30	11	15	5
844	Beaver Brown-UL DK	5	2	5	2	2	1
869	Hazelnut Brown-VY DK	47	18	39	15	20	8
898	Coffee Brown-VY DK	4048	1593	3374	1328	1687	664
919	Red Copper	1129	443	941	369	470	185
920	Copper-MD	175	68	146	57	73	29
921	Copper	5	2	5	2	2	1
924	Gray Green--VY DK	2390	940	1992	783	996	392
926	Gray Green-MD	149	58	125	48	62	24
930	Antique Blue-DK	72	27	60	23	30	11
931	Antique Blue-MD	196	76	164	63	82	32
934	Black Avocado Green	202	79	168	66	84	33
935	Avocado Green-DK	16	5	14	5	7	2
936	Avocado Green-VY DK	1494	587	1245	489	623	245
938	Coffee Brown-UL DK	896	353	747	294	374	147
939	Navy Blue-VY DK	398	157	332	131	166	65
945	Tawny	157	61	131	51	65	26
948	Peach-VY LT	171	67	143	56	71	28
975	Golden Brown-DK	236	92	197	77	98	38
977	Golden Brown-LT	9	2	8	2	4	1
3021	Brown Gray-VY DK	128	49	107	41	53	20
3023	Brown Gray-LT	14	5	12	5	6	2
3031	Mocha Brown-VY DK	45	16	38	14	19	7
3041	Antique Violet-MD	9	2	8	2	4	1
3045	Yellow Beige-DK	20	7	17	6	8	3
3051	Green Gray-DK	9	2	8	2	4	1
3064	Desert Sand	43	16	36	14	18	7
3362	Pine Green-DK	9	2	8	2	4	1
3371	Black Brown	193	76	161	63	80	32
3685	Mauve-DK	54	20	45	17	23	8
3721	Shell Pink-DK	41	16	35	14	17	7
3726	Antique Mauve-DK	4	2	3	2	2	1
3740	Antique Violet-DK	38	14	32	12	16	6
3768	Gray Green-DK	682	268	569	224	284	112
3770	Tawny-VY LT	247	95	206	80	103	40
3772	Desert Sand-VY DK	214	83	179	69	89	35
3776	Mahogany-LT	16	5	14	5	7	2
3778	Terra Cotta-LT	131	50	110	42	55	21
3779	Terra Cotta-UL VY LT	43	16	36	14	18	7
3781	Mocha Brown-DK	1193	470	995	392	497	196
3787	Brown Gray-DK	1015	400	846	333	423	167
3799	Pewter Gray-VY DK	1492	587	1244	489	622	245
3821	Straw	4	2	3	2	2	1
3823	Yellow-UL Pale	191	74	159	62	80	31
3824	Apricot-LT	63	23	53	20	26	10
3827	Golden Brown-Pale	31	11	26	9	13	5
3828	Hazelnut Brown	110	43	92	36	46	18
3829	Old Gold-VY DK	128	49	107	41	53	20
3830	Terra Cotta-MD	22	7	18	6	9	3
3852	Straw-VY DK	27	9	23	8	11	4
3856	Mahogany-UL VY LT	121	47	101	39	50	20
3859	Rosewood-LT	68	25	57	21	29	11
3861	Cocoa-LT	23	9	20	8	10	4
3862	Mocha Beige-DK	688	270	573	225	287	113
3863	Mocha Beige-MD	20	7	17	6	8	3
3864	Mocha Beige-LT	76	29	63	24	32	12
3865	Winter White	5	2	5	2	2	1
3866	Mocha Brown-UL VY LT	18	5	15	5	8	2

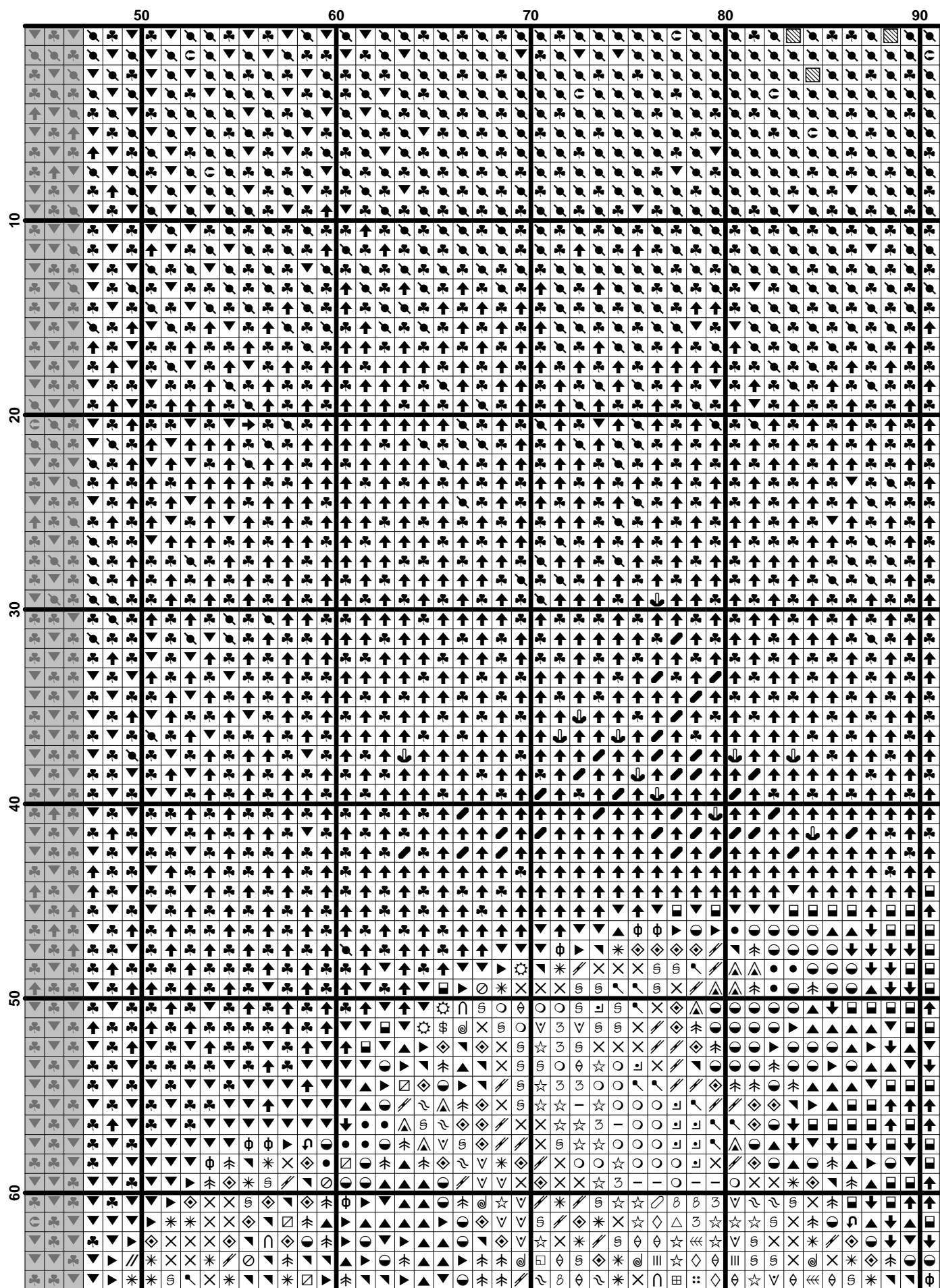
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		25		26		27	
221	Shell Pink-VY DK	208	81	200	78	193	75
223	Shell Pink-LT	5	1	5	1	5	1
300	Mahogany-VY DK	326	128	314	123	302	119
310	Black	250	98	240	94	231	91
312	Baby Blue-VY DK	4	1	4	1	4	1
315	Antique Mauve-VY DK	1	1	1	1	1	1
317	Pewter Gray	6	2	6	2	5	2
347	Salmon-VY DK	27	10	26	10	25	9
349	Coral-DK	23	9	22	8	21	8
351	Coral	1	1	1	1	1	1
352	Coral-LT	9	4	9	3	9	3
353	Peach	55	22	53	21	51	20
355	Terra Cotta-DK	90	35	87	34	83	33
356	Terra Cotta-MD	12	4	11	4	11	4
407	Desert Sand-DK	36	14	35	13	33	13
413	Pewter Gray-DK	40	15	38	15	37	14
414	Steel Gray-DK	9	3	8	3	8	3
420	Hazelnut Brown-DK	50	19	48	19	47	18
433	Brown-MD	73	28	70	27	67	26
435	Brown-VY LT	68	27	66	26	63	25
436	Tan	30	12	28	11	27	11
437	Tan-LT	20	8	19	8	19	7
451	Shell Gray-DK	9	3	8	3	8	3
452	Shell Gray-MD	9	4	9	3	9	3
453	Shell Gray-LT	9	4	9	3	9	3
500	Blue Green-VY DK	111	43	107	42	103	40
543	Beige Brown-UL VY LT	4	1	3	1	3	1
610	Drab Brown-DK	653	257	628	247	605	238
612	Drab Brown-LT	34	13	33	12	31	12
632	Desert Sand-UL VY DK	136	53	131	51	126	49
640	Beige Gray-VY DK	12	4	12	4	11	4
647	Beaver Gray-MD	4	1	4	1	4	1
648	Beaver Gray-LT	8	3	8	3	7	3
720	Orange Spice-DK	138	54	133	52	128	50
729	Old Gold-MD	17	6	17	6	16	6
738	Tan-VY LT	53	21	51	20	49	19
739	Tan-UL VY LT	10	4	10	3	9	3
754	Peach-LT	53	21	51	20	49	19
758	Terra Cotta-VY LT	62	24	60	23	57	22
780	Topaz-UL VY DK	135	53	130	51	125	49
782	Topaz-DK	30	12	28	11	27	11
783	Topaz-MD	6	2	6	2	5	2
797	Royal Blue	1	1	1	1	1	1
817	Coral Red-VY DK	170	66	163	64	157	61
819	Baby Pink-LT	7	2	7	2	7	2
820	Royal Blue-VY DK	4	1	3	1	3	1
823	Navy Blue-DK	481	189	462	181	445	175
825	Blue-DK	1	1	1	1	1	1
829	Golden Olive-VY DK	1691	665	1626	640	1565	616
830	Golden Olive-DK	768	302	739	291	711	280
838	Beige Brown-VY DK	38	14	37	14	35	13
839	Beige Brown-DK	16	6	15	6	15	5
840	Beige Brown-MD	24	9	23	8	22	8

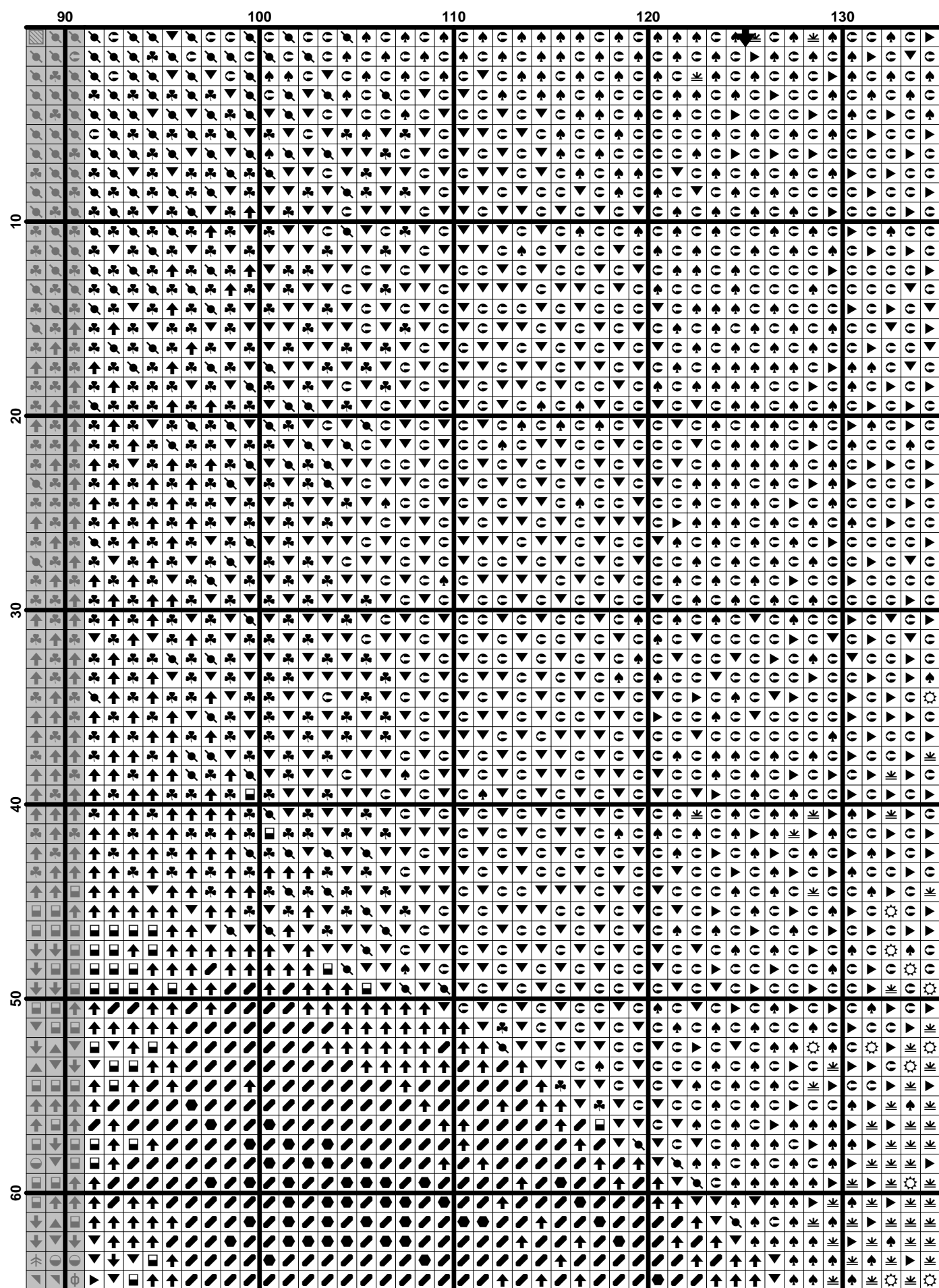
841	Beige Brown-LT	14	5	14	5	13	5
844	Beaver Brown-UL DK	2	1	2	1	2	1
869	Hazelnut Brown-VY DK	19	7	18	7	17	7
898	Coffee Brown-VY DK	1619	637	1557	613	1499	590
919	Red Copper	451	177	434	170	418	164
920	Copper-MD	70	27	67	26	65	25
921	Copper	2	1	2	1	2	1
924	Gray Green--VY DK	956	376	919	361	885	348
926	Gray Green-MD	60	23	57	22	55	21
930	Antique Blue-DK	29	11	28	10	27	10
931	Antique Blue-MD	78	30	75	29	73	28
934	Black Avocado Green	81	32	78	30	75	29
935	Avocado Green-DK	6	2	6	2	6	2
936	Avocado Green-VY DK	598	235	575	226	553	217
938	Coffee Brown-UL DK	359	141	345	136	332	131
939	Navy Blue-VY DK	159	63	153	60	147	58
945	Tawny	63	24	60	24	58	23
948	Peach-VY LT	68	27	66	26	63	25
975	Golden Brown-DK	94	37	91	35	87	34
977	Golden Brown-LT	4	1	3	1	3	1
3021	Brown Gray-VY DK	51	19	49	19	47	18
3023	Brown Gray-LT	6	2	6	2	5	2
3031	Mocha Brown-VY DK	18	6	17	6	17	6
3041	Antique Violet-MD	4	1	3	1	3	1
3045	Yellow Beige-DK	8	3	8	3	7	3
3051	Green Gray-DK	4	1	3	1	3	1
3064	Desert Sand	17	6	17	6	16	6
3362	Pine Green-DK	4	1	3	1	3	1
3371	Black Brown	77	30	74	29	71	28
3685	Mauve-DK	22	8	21	8	20	7
3721	Shell Pink-DK	17	6	16	6	15	6
3726	Antique Mauve-DK	1	1	1	1	1	1
3740	Antique Violet-DK	15	6	15	6	14	5
3768	Gray Green-DK	273	107	262	103	253	99
3770	Tawny-VY LT	99	38	95	37	91	35
3772	Desert Sand-VY DK	86	33	82	32	79	31
3776	Mahogany-LT	6	2	6	2	6	2
3778	Terra Cotta-LT	53	20	51	19	49	19
3779	Terra Cotta-UL VY LT	17	6	17	6	16	6
3781	Mocha Brown-DK	477	188	459	181	442	174
3787	Brown Gray-DK	406	160	390	154	376	148
3799	Pewter Gray-VY DK	597	235	574	226	553	217
3821	Straw	1	1	1	1	1	1
3823	Yellow-UL Pale	76	30	73	28	71	27
3824	Apricot-LT	25	9	24	9	23	9
3827	Golden Brown-Pale	12	4	12	4	11	4
3828	Hazelnut Brown	44	17	42	17	41	16
3829	Old Gold-VY DK	51	19	49	19	47	18
3830	Terra Cotta-MD	9	3	8	3	8	3
3852	Straw-VY DK	11	4	10	3	10	3
3856	Mahogany-UL VY LT	48	19	46	18	45	17
3859	Rosewood-LT	27	10	26	10	25	9
3861	Cocoa-LT	9	4	9	3	9	3
3862	Mocha Beige-DK	275	108	264	104	255	100
3863	Mocha Beige-MD	8	3	8	3	7	3
3864	Mocha Beige-LT	30	12	29	11	28	11
3865	Winter White	2	1	2	1	2	1
3866	Mocha Brown-UL VY LT	7	2	7	2	7	2

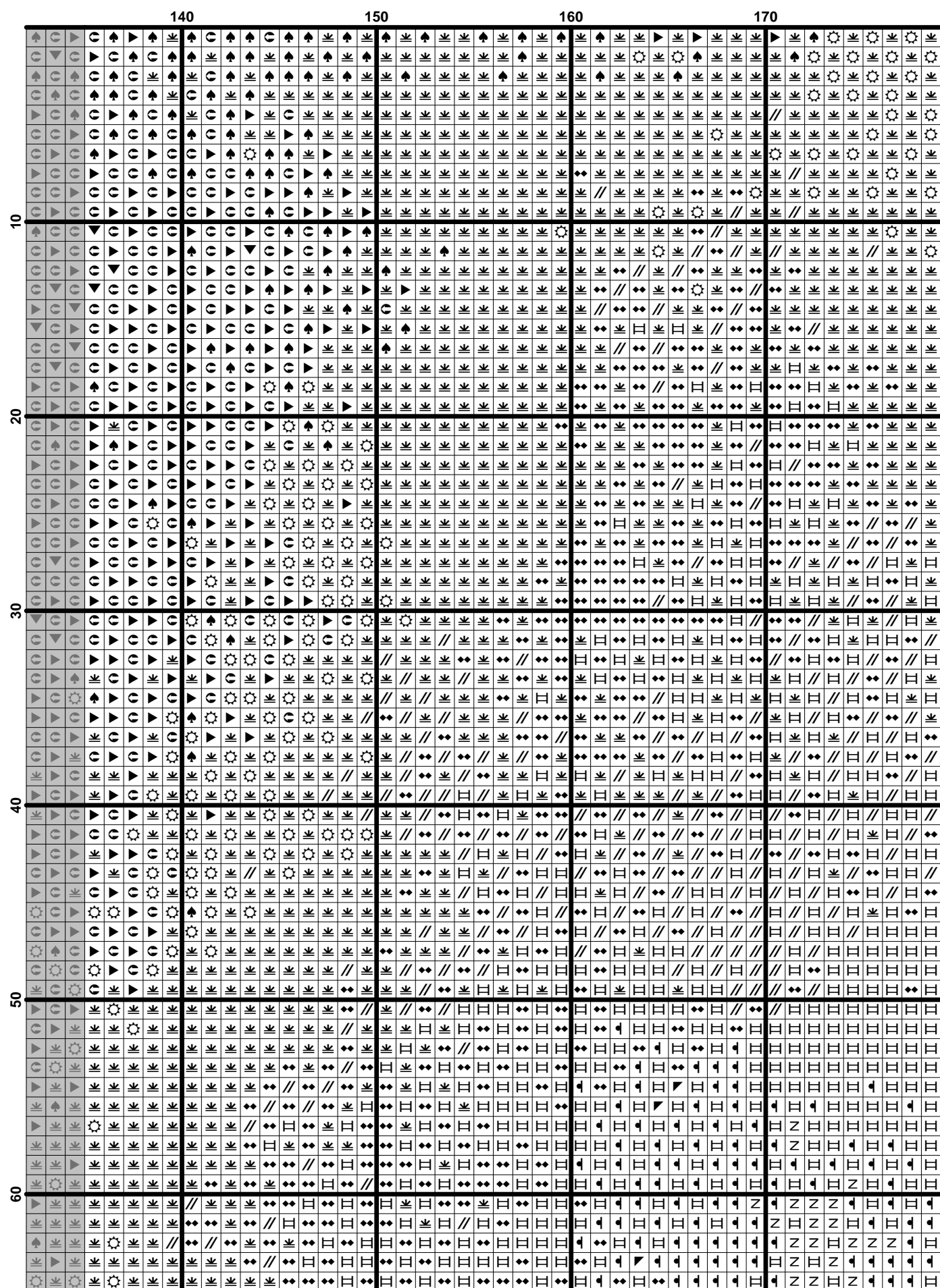
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	186	73	173	68	163	64
223	Shell Pink-LT	5	1	4	1	4	1
300	Mahogany-VY DK	291	114	272	107	255	100
310	Black	223	87	208	82	195	77
312	Baby Blue-VY DK	4	1	4	1	3	1
315	Antique Mauve-VY DK	1	1	1	1	1	1
317	Pewter Gray	5	2	5	2	5	2
347	Salmon-VY DK	24	9	23	8	21	8
349	Coral-DK	21	8	19	7	18	7
351	Coral	1	1	1	1	1	1
352	Coral-LT	8	3	8	3	7	3
353	Peach	50	19	46	18	43	17
355	Terra Cotta-DK	80	32	75	29	70	28
356	Terra Cotta-MD	10	4	10	4	9	3
407	Desert Sand-DK	32	12	30	11	28	11
413	Pewter Gray-DK	35	14	33	13	31	12
414	Steel Gray-DK	8	3	7	2	7	2
420	Hazelnut Brown-DK	45	17	42	16	39	15
433	Brown-MD	65	25	61	23	57	22
435	Brown-VY LT	61	24	57	22	53	21
436	Tan	26	10	25	10	23	9
437	Tan-LT	18	7	17	7	16	6
451	Shell Gray-DK	8	3	7	2	7	2
452	Shell Gray-MD	8	3	8	3	7	3
453	Shell Gray-LT	8	3	8	3	7	3
500	Blue Green-VY DK	99	39	92	36	87	34
543	Beige Brown-UL VY LT	3	1	3	1	3	1
610	Drab Brown-DK	583	230	544	214	510	201
612	Drab Brown-LT	30	12	28	11	26	10
632	Desert Sand-UL VY DK	122	48	113	44	106	42
640	Beige Gray-VY DK	11	4	10	4	10	3
647	Beaver Gray-MD	4	1	4	1	3	1
648	Beaver Gray-LT	7	3	7	2	6	2
720	Orange Spice-DK	123	48	115	45	108	42
729	Old Gold-MD	15	6	14	5	14	5
738	Tan-VY LT	48	19	44	17	42	16
739	Tan-UL VY LT	9	3	8	3	8	3
754	Peach-LT	48	19	44	17	42	16
758	Terra Cotta-VY LT	55	21	52	20	48	19
780	Topaz-UL VY DK	121	48	113	44	106	42
782	Topaz-DK	26	10	25	10	23	9
783	Topaz-MD	5	2	5	2	5	2
797	Royal Blue	1	1	1	1	1	1
817	Coral Red-VY DK	152	59	142	55	133	52
819	Baby Pink-LT	6	2	6	2	6	2
820	Royal Blue-VY DK	3	1	3	1	3	1
823	Navy Blue-DK	429	168	401	157	376	147
825	Blue-DK	1	1	1	1	1	1
829	Golden Olive-VY DK	1509	594	1409	554	1321	520
830	Golden Olive-DK	686	270	640	252	600	236
838	Beige Brown-VY DK	34	13	32	12	30	11
839	Beige Brown-DK	14	5	13	5	12	5
840	Beige Brown-MD	21	8	20	7	19	7

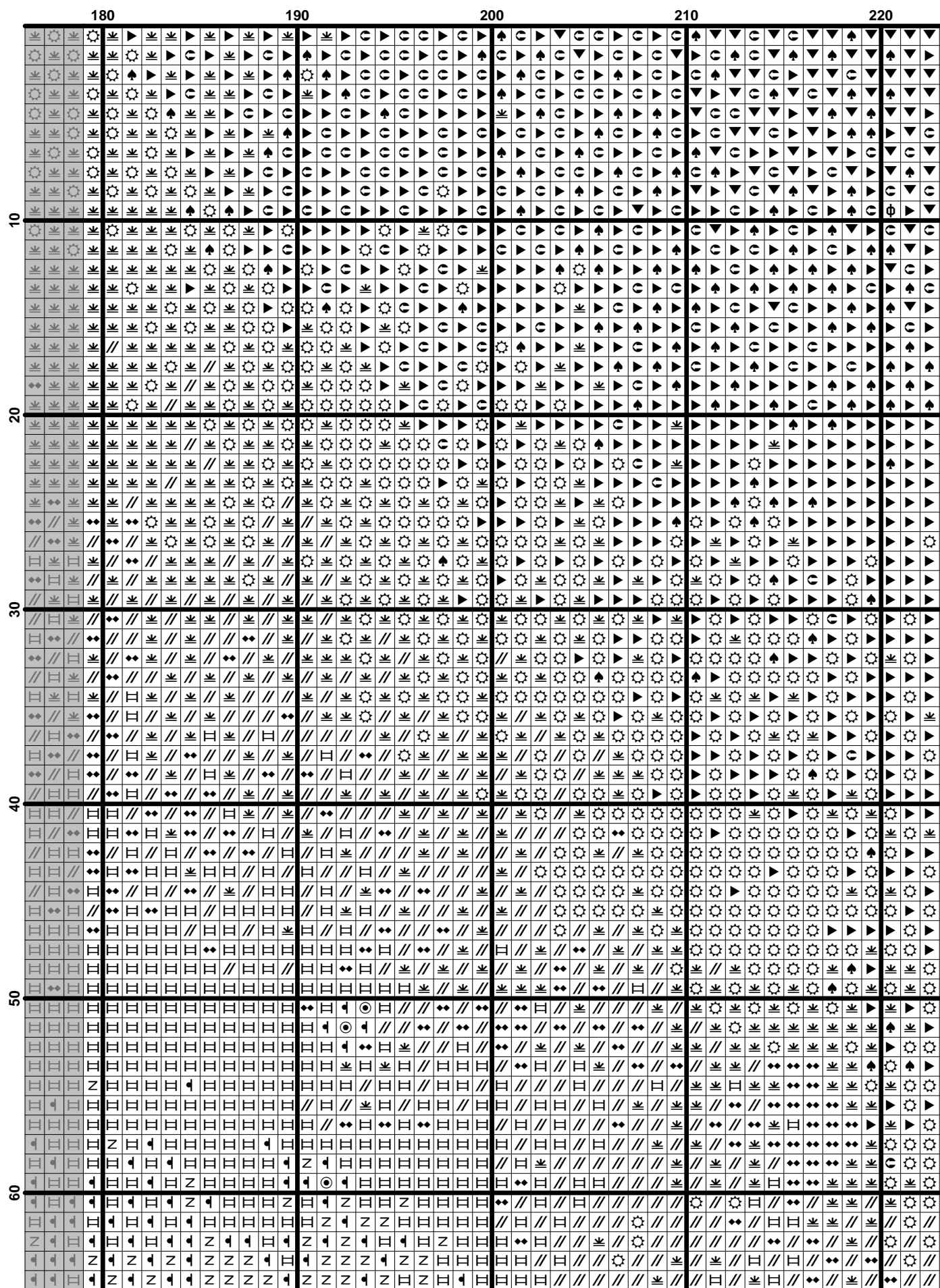
841	Beige Brown-LT	13	5	12	4	11	4
844	Beaver Brown-UL DK	2	1	2	1	2	1
869	Hazelnut Brown-VY DK	17	6	16	6	15	6
898	Coffee Brown-VY DK	1446	569	1349	531	1265	498
919	Red Copper	403	158	376	148	353	138
920	Copper-MD	62	24	58	23	55	21
921	Copper	2	1	2	1	2	1
924	Gray Green--VY DK	854	336	797	313	747	294
926	Gray Green-MD	53	21	50	19	47	18
930	Antique Blue-DK	26	10	24	9	23	8
931	Antique Blue-MD	70	27	65	25	61	24
934	Black Avocado Green	72	28	67	26	63	25
935	Avocado Green-DK	6	2	5	2	5	2
936	Avocado Green-VY DK	534	210	498	196	467	183
938	Coffee Brown-UL DK	320	126	299	118	280	110
939	Navy Blue-VY DK	142	56	133	52	124	49
945	Tawny	56	22	52	20	49	19
948	Peach-VY LT	61	24	57	22	53	21
975	Golden Brown-DK	84	33	79	31	74	29
977	Golden Brown-LT	3	1	3	1	3	1
3021	Brown Gray-VY DK	46	17	43	16	40	15
3023	Brown Gray-LT	5	2	5	2	5	2
3031	Mocha Brown-VY DK	16	6	15	5	14	5
3041	Antique Violet-MD	3	1	3	1	3	1
3045	Yellow Beige-DK	7	3	7	2	6	2
3051	Green Gray-DK	3	1	3	1	3	1
3064	Desert Sand	15	6	14	5	14	5
3362	Pine Green-DK	3	1	3	1	3	1
3371	Black Brown	69	27	64	25	60	24
3685	Mauve-DK	19	7	18	7	17	6
3721	Shell Pink-DK	15	6	14	5	13	5
3726	Antique Mauve-DK	1	1	1	1	1	1
3740	Antique Violet-DK	14	5	13	5	12	5
3768	Gray Green-DK	244	96	227	89	213	84
3770	Tawny-VY LT	88	34	82	32	77	30
3772	Desert Sand-VY DK	77	30	71	28	67	26
3776	Mahogany-LT	6	2	5	2	5	2
3778	Terra Cotta-LT	47	18	44	17	41	16
3779	Terra Cotta-UL VY LT	15	6	14	5	14	5
3781	Mocha Brown-DK	426	168	398	157	373	147
3787	Brown Gray-DK	363	143	338	133	317	125
3799	Pewter Gray-VY DK	533	210	497	196	466	183
3821	Straw	1	1	1	1	1	1
3823	Yellow-UL Pale	68	26	64	25	60	23
3824	Apricot-LT	23	8	21	8	20	7
3827	Golden Brown-Pale	11	4	10	4	10	3
3828	Hazelnut Brown	39	15	37	14	34	14
3829	Old Gold-VY DK	46	17	43	16	40	15
3830	Terra Cotta-MD	8	3	7	2	7	2
3852	Straw-VY DK	10	3	9	3	8	3
3856	Mahogany-UL VY LT	43	17	40	16	38	15
3859	Rosewood-LT	24	9	23	8	21	8
3861	Cocoa-LT	8	3	8	3	7	3
3862	Mocha Beige-DK	246	96	229	90	215	84
3863	Mocha Beige-MD	7	3	7	2	6	2
3864	Mocha Beige-LT	27	10	25	10	24	9
3865	Winter White	2	1	2	1	2	1
3866	Mocha Brown-UL VY LT	6	2	6	2	6	2

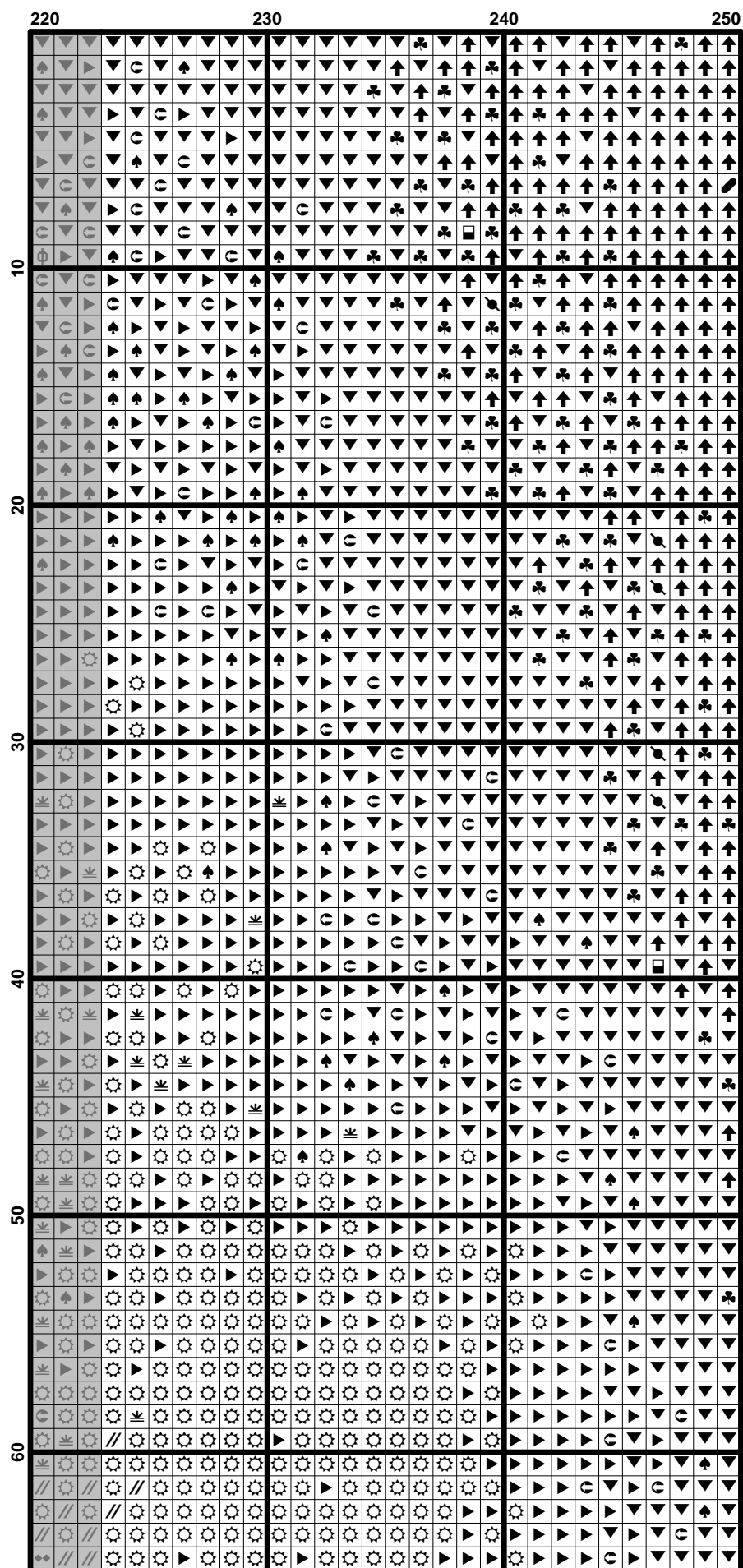


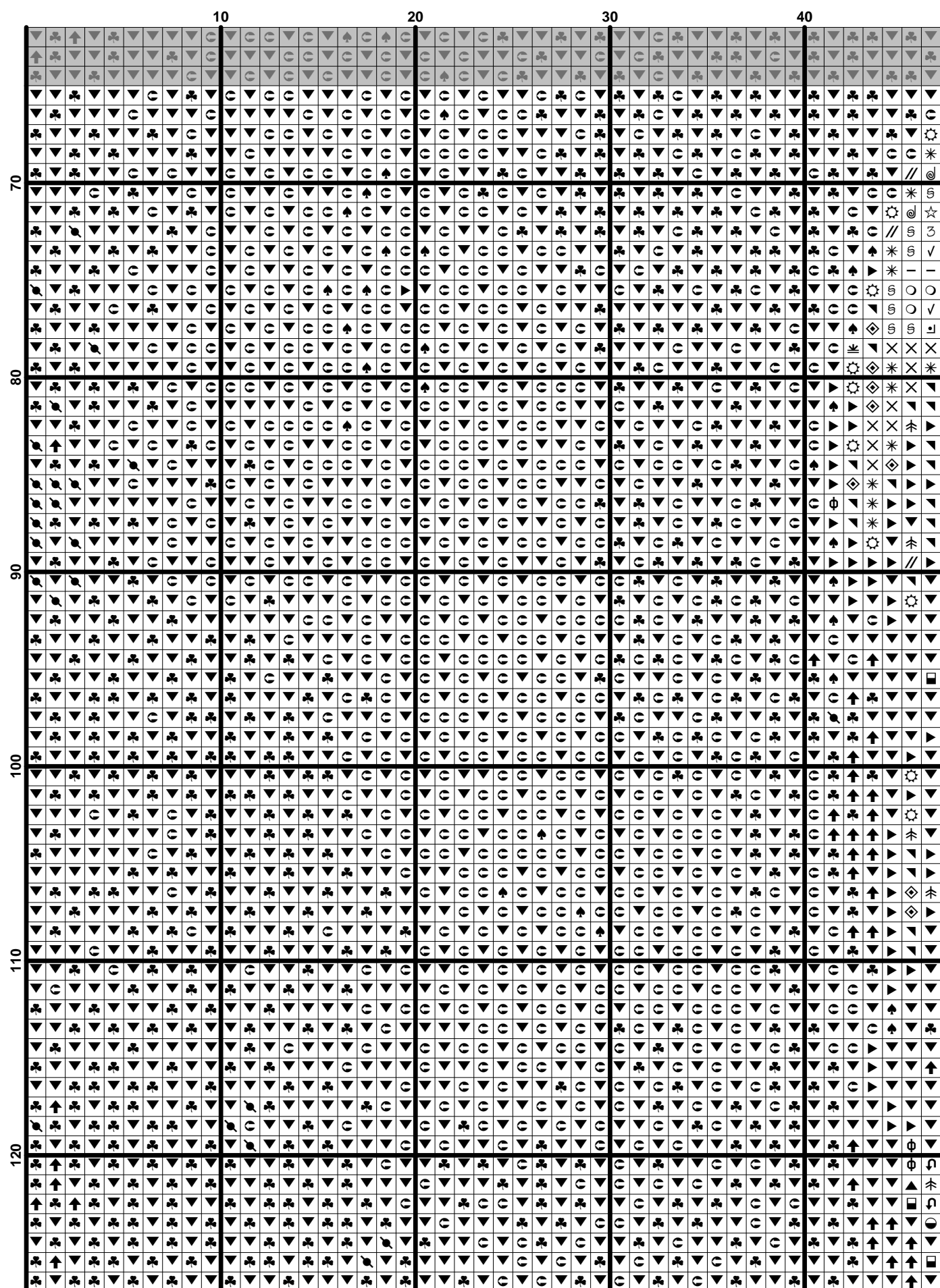




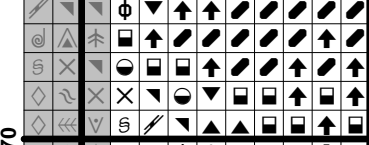
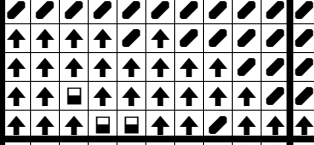
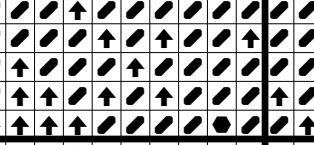
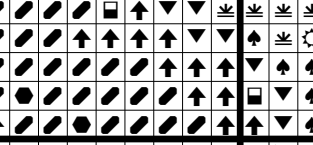
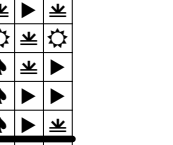
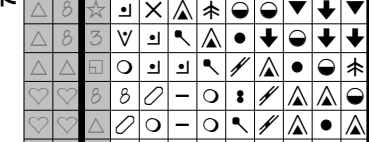
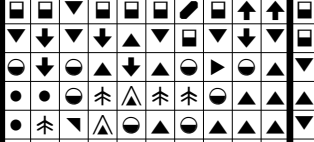
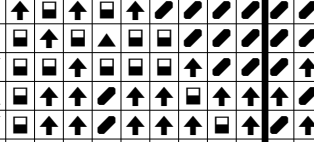
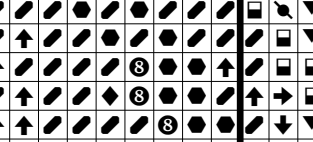
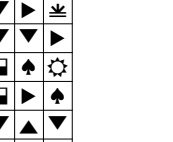
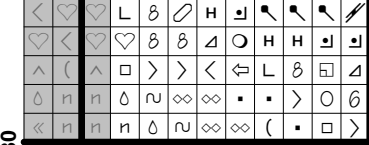
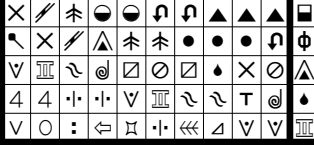
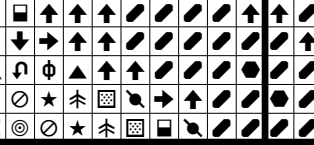
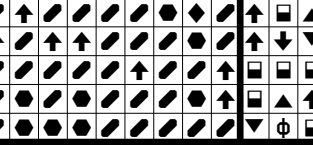
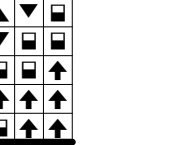
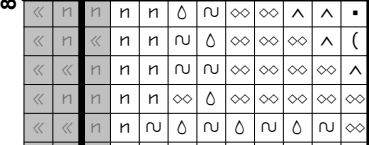
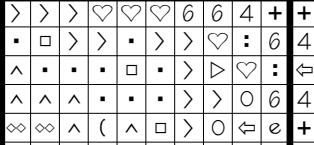
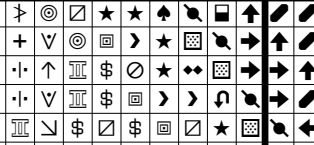
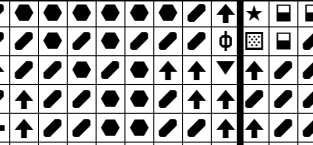
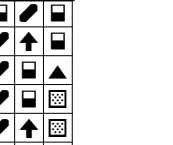
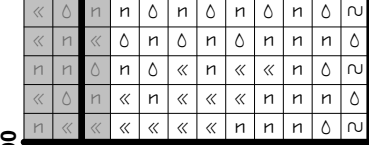

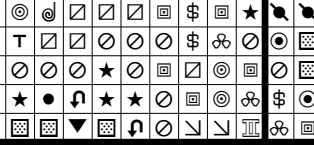
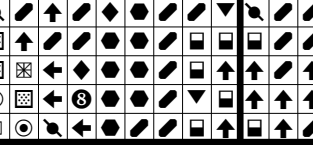
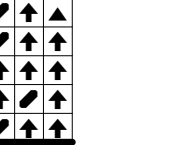
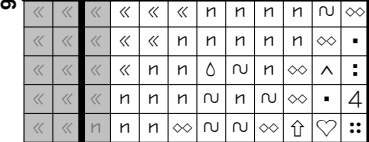
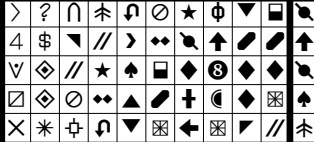
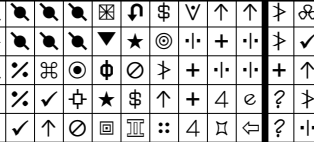
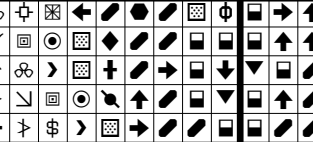
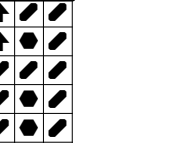






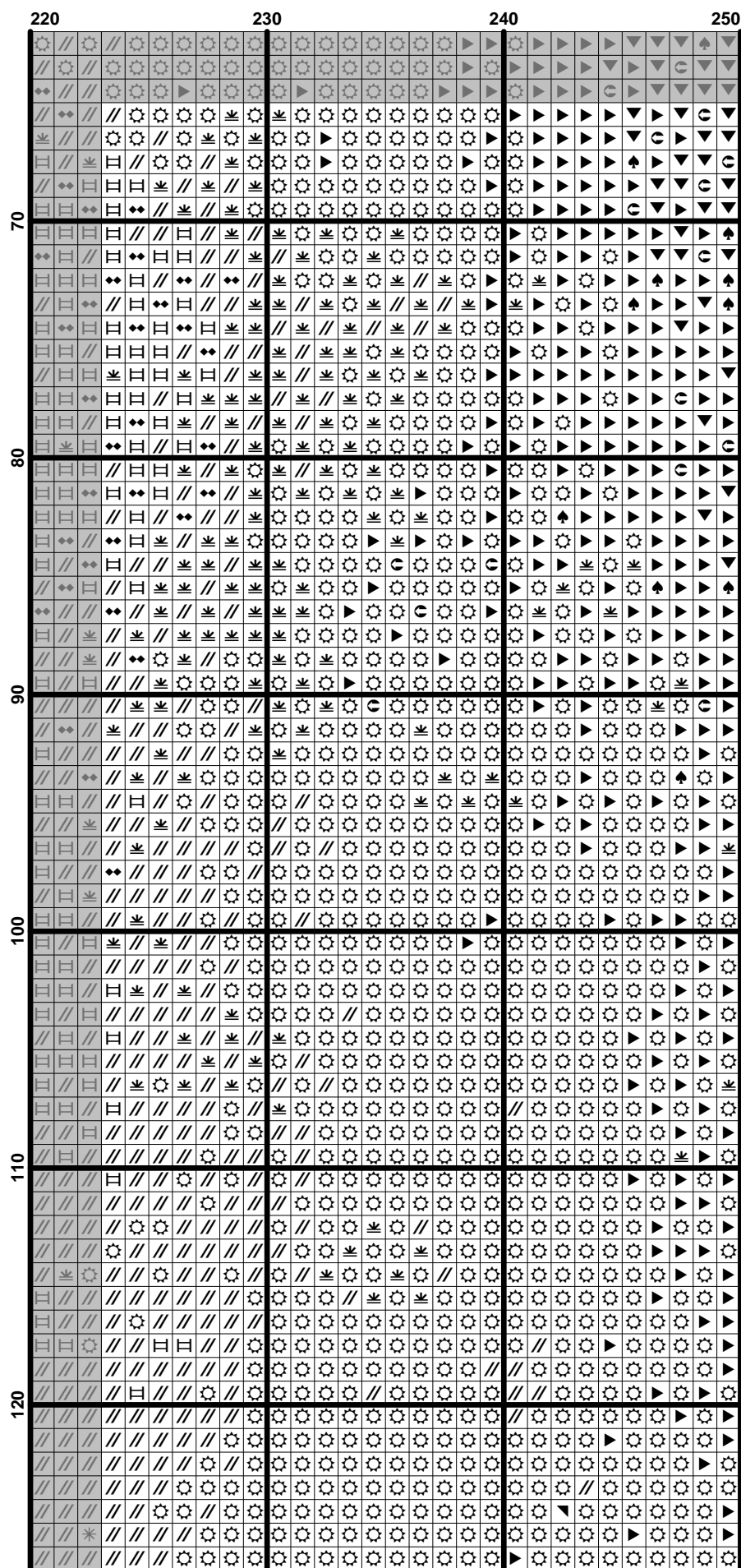


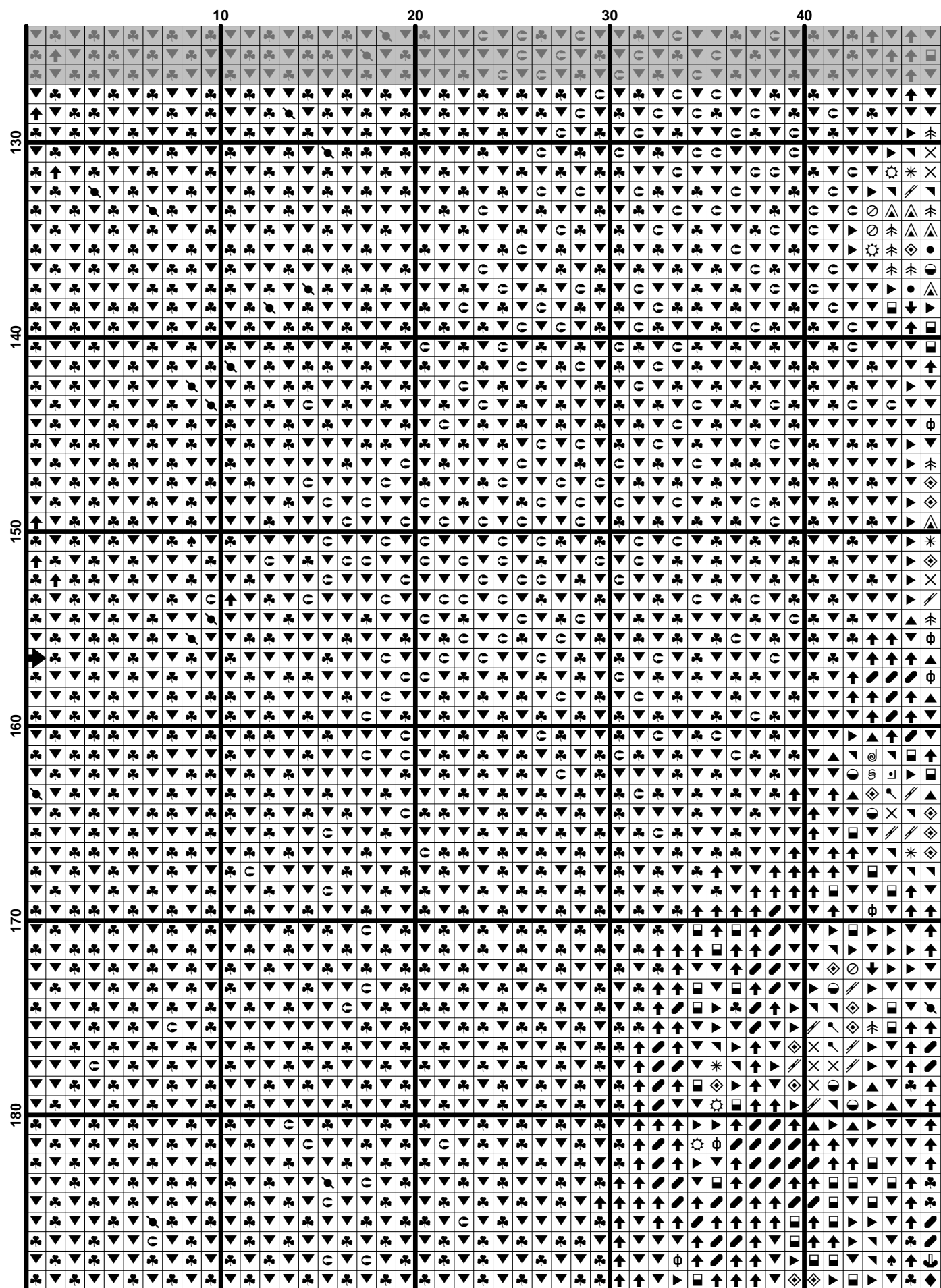
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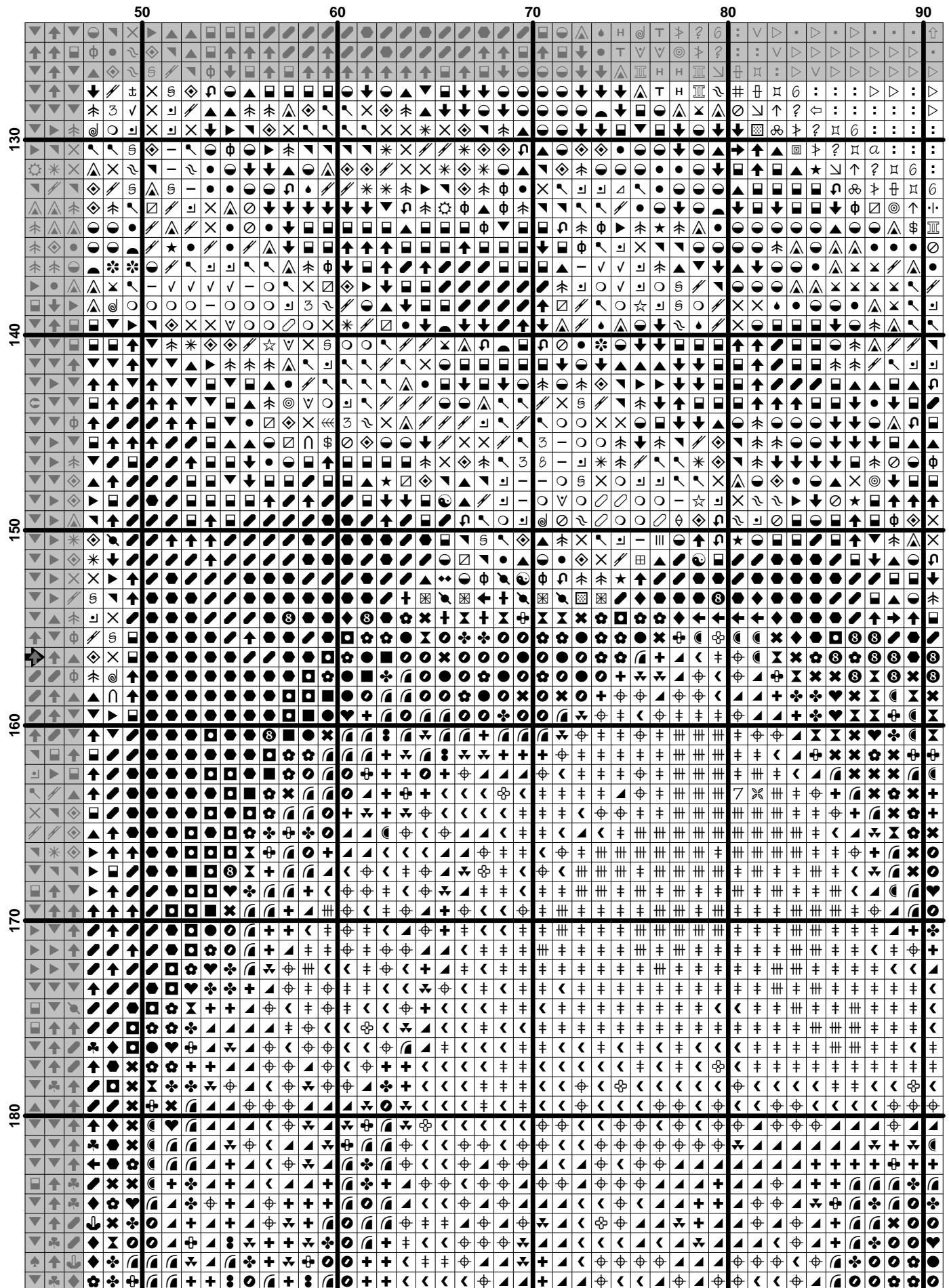
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70					
80					
90					
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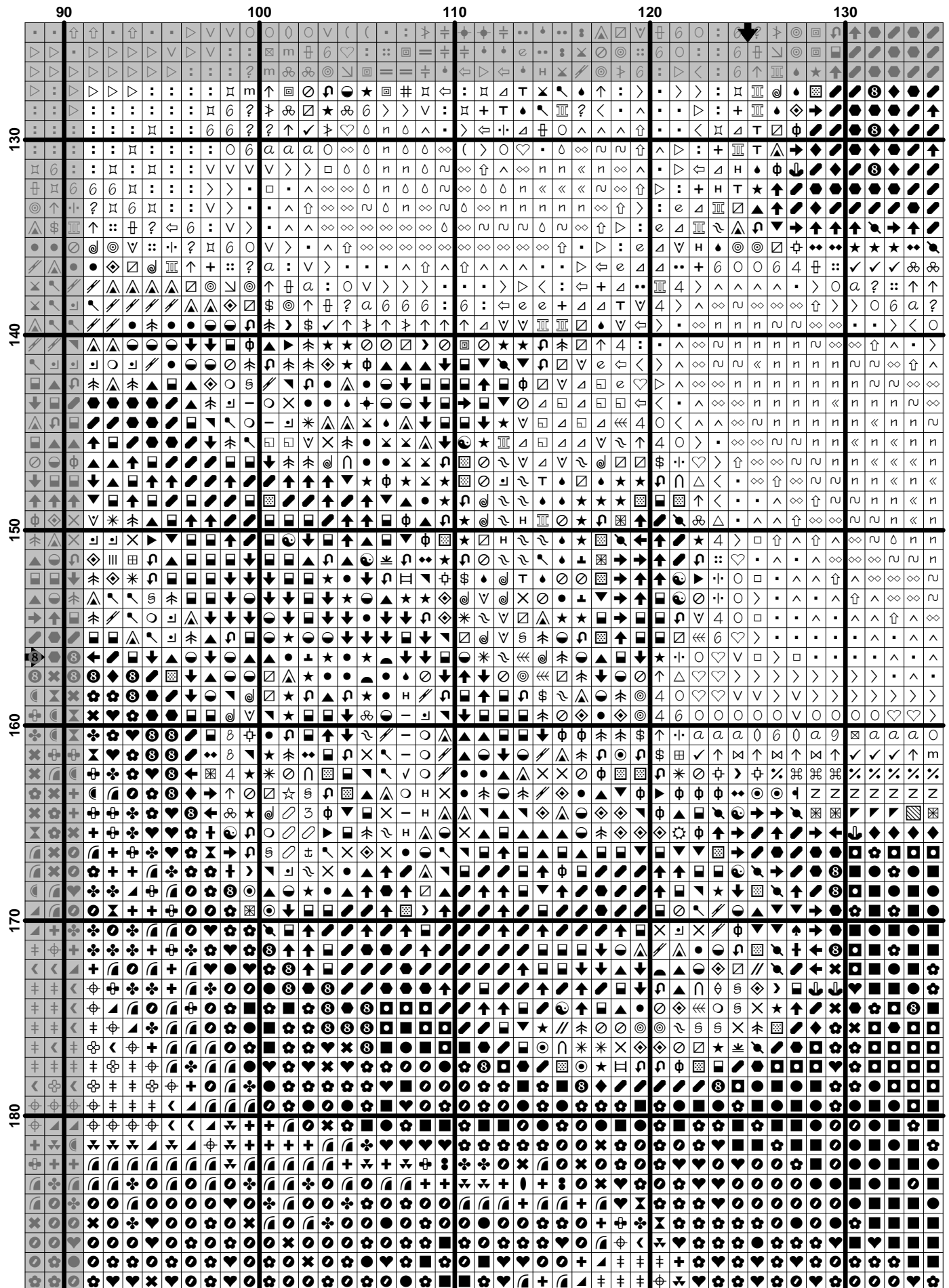
$$(16) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

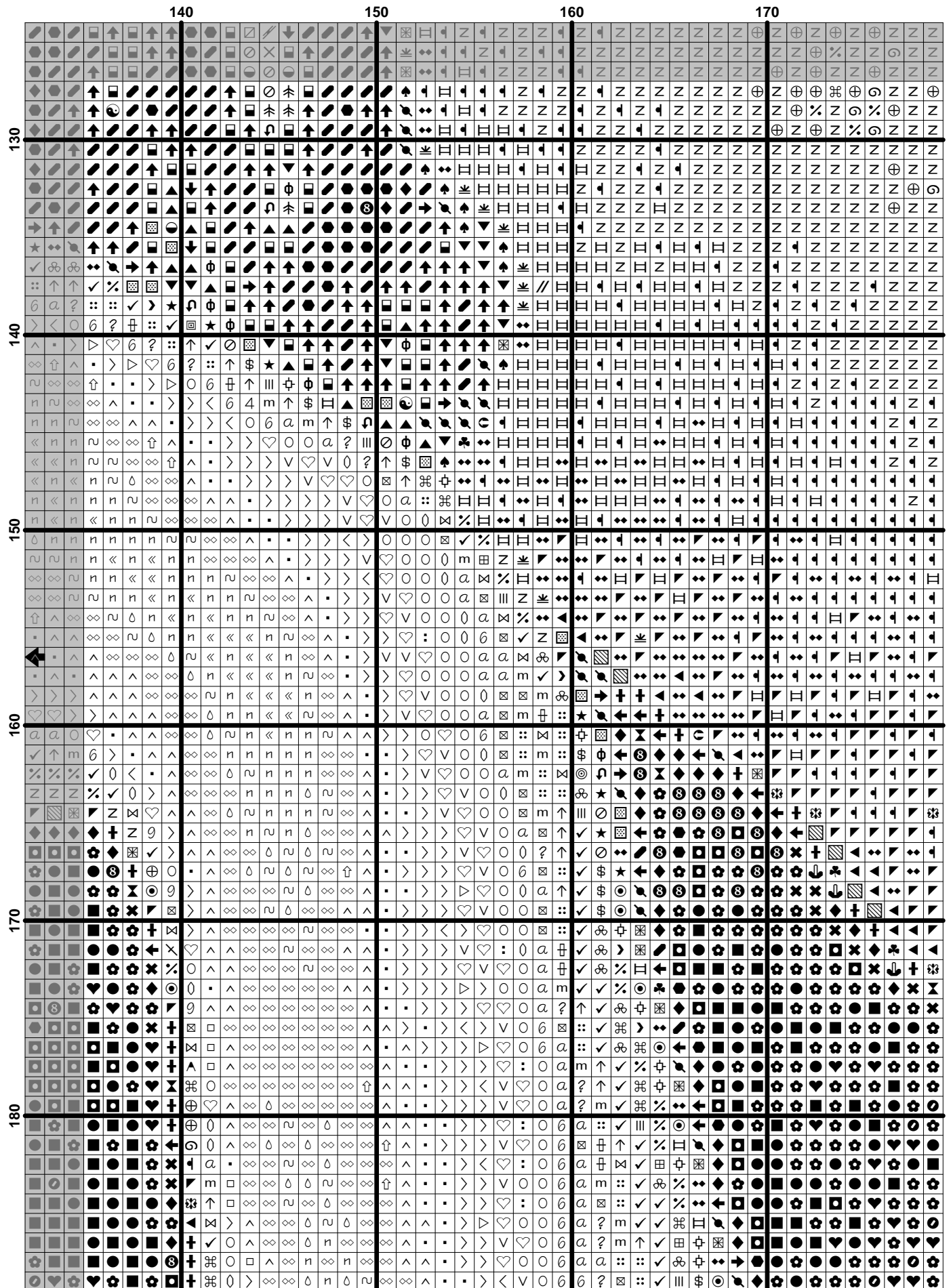
$$(17) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$



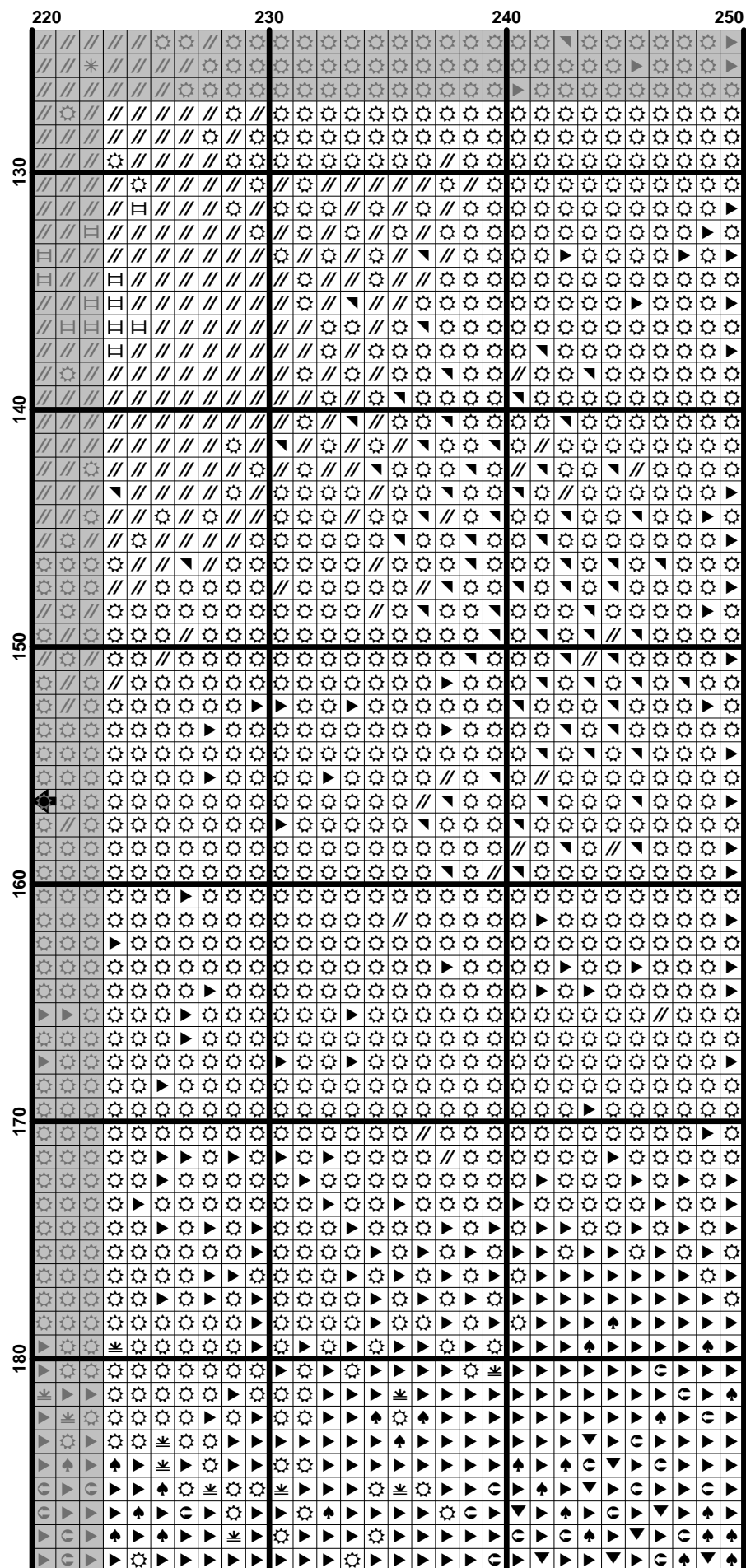


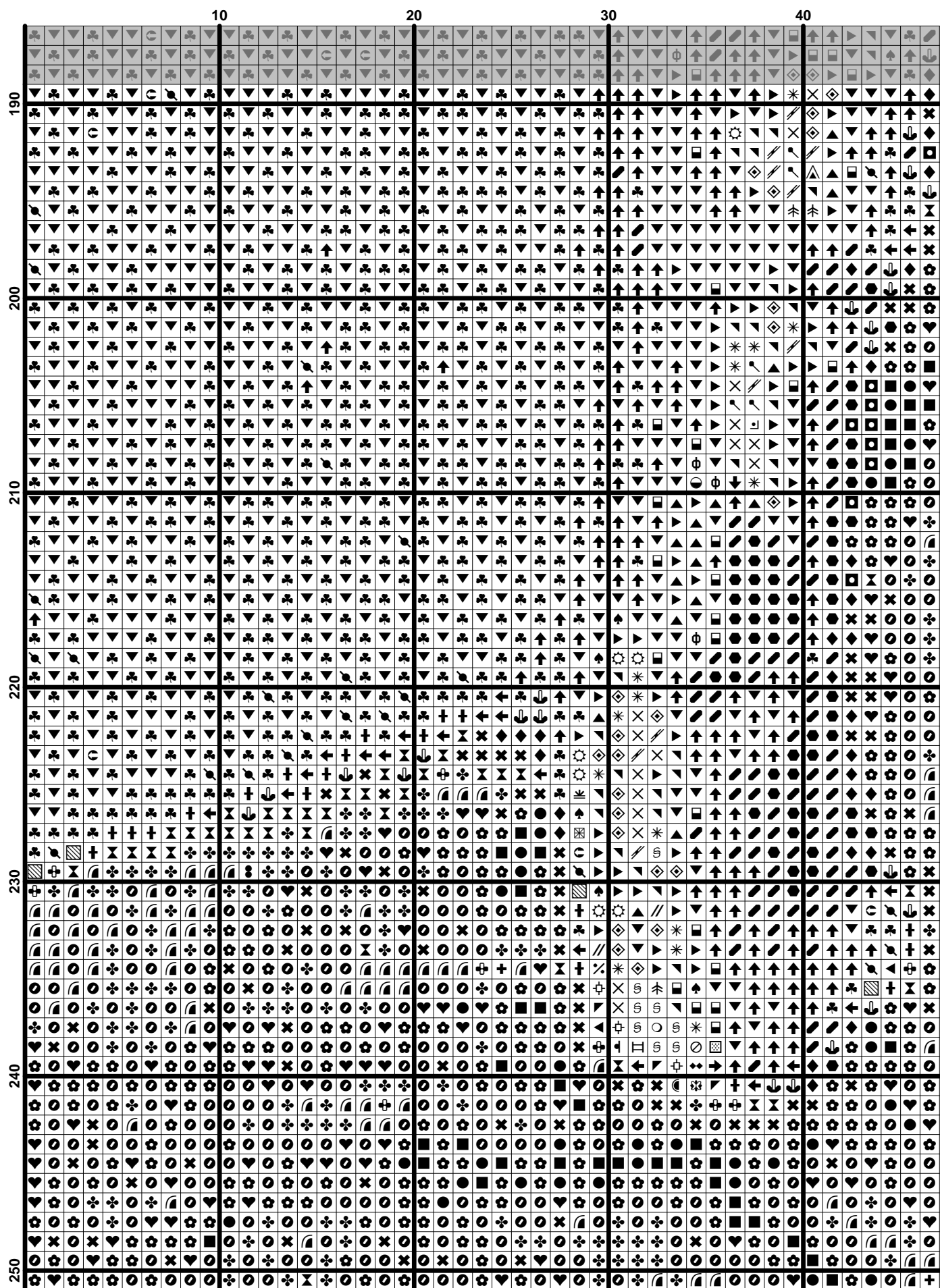


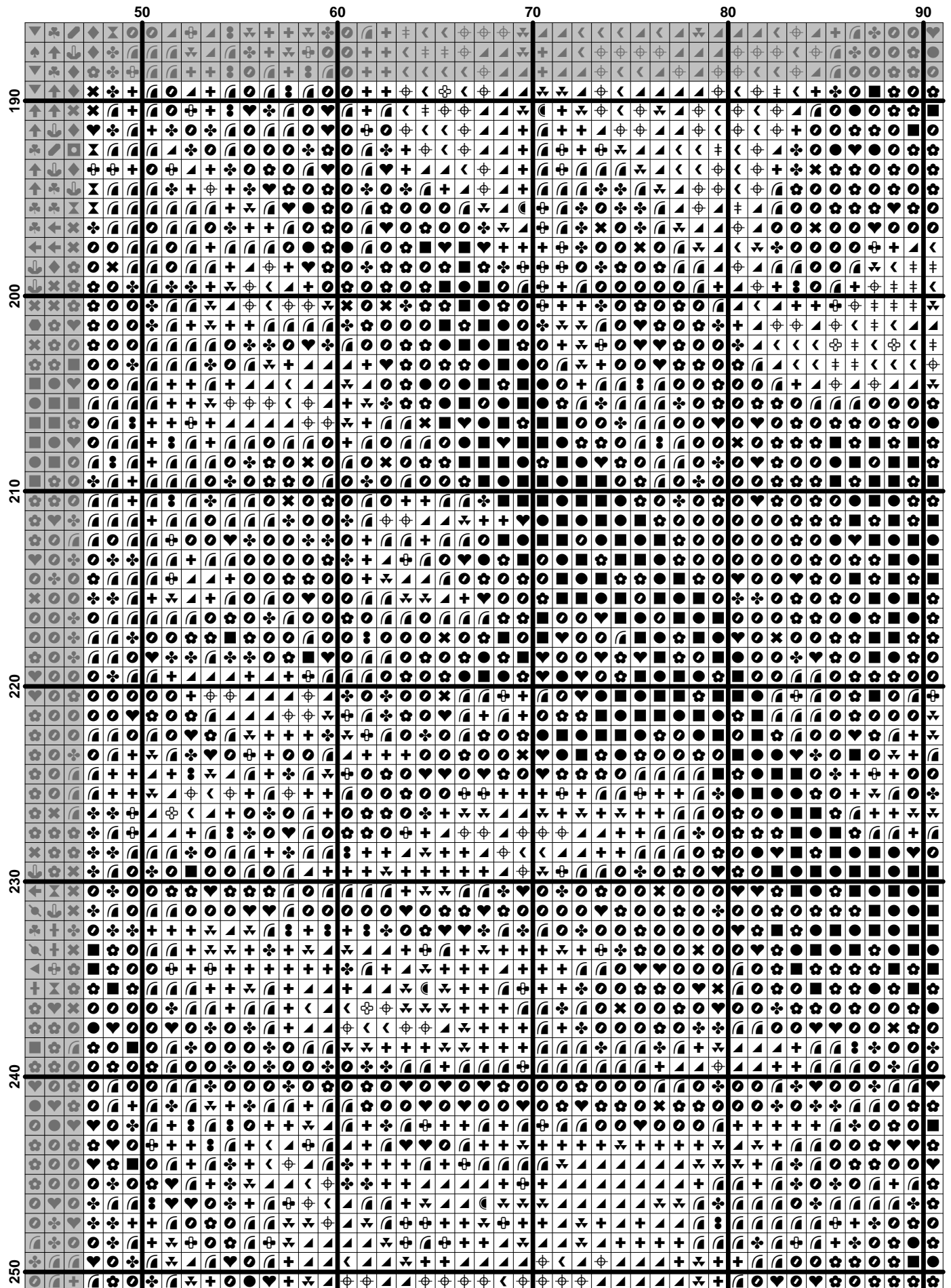


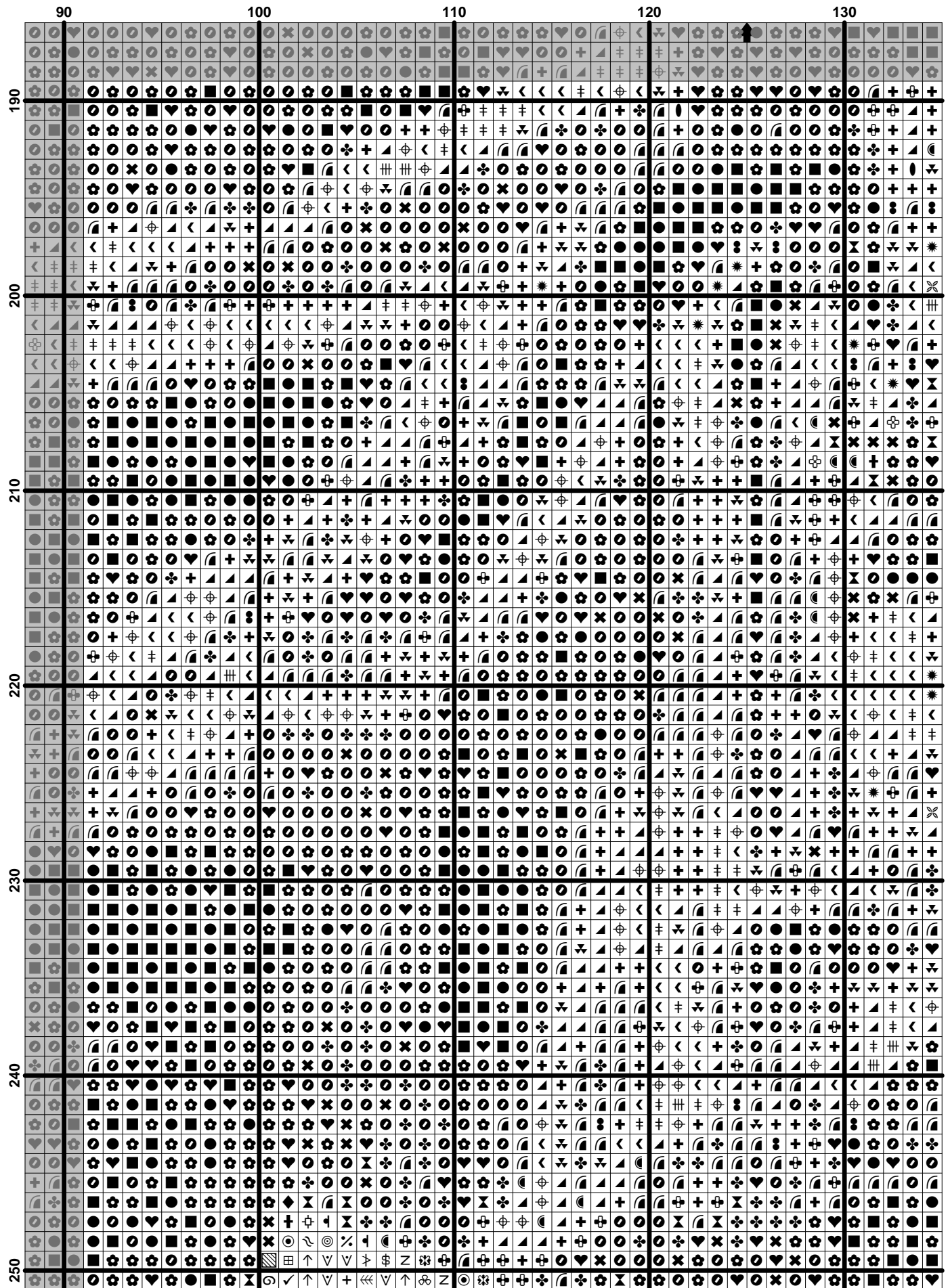


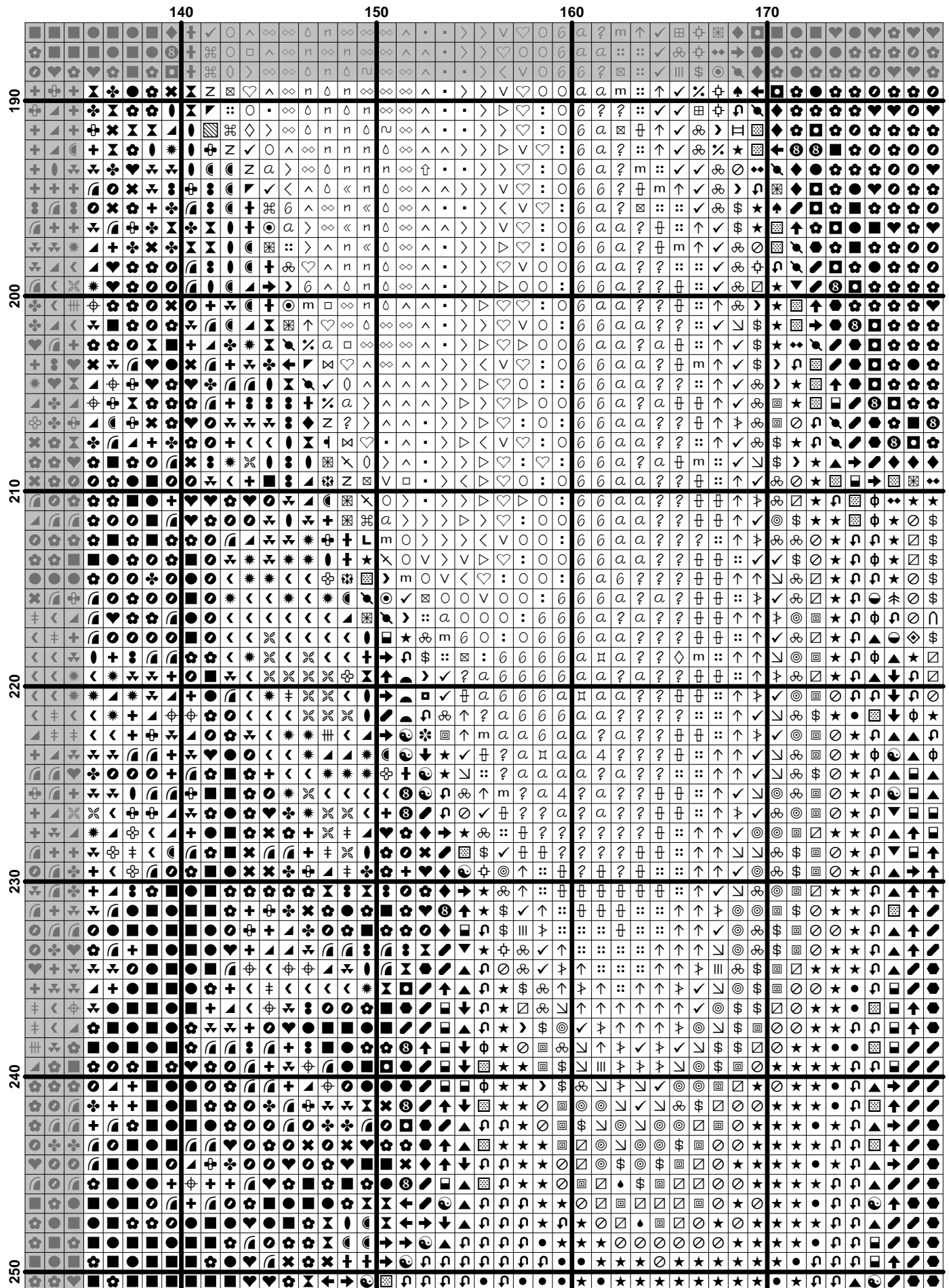
[illegible]











	180	190	200	210	220
190					
200					
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220					
230					
240					
250					

