

# 1118 Compulsory Education



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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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## Compulsory Education

Stitch Count	
Horizontal:	228
Vertical:	320

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:	42	16.23	58	22.82	37	14.2	51	19.96	33	12.625	46	17.75
Including Margins:	58	23	74	29	53	21	67	26	49	19	62	24
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	58	22.72	81	31.94	49	18.93	67	26.62	24	9.46	33	13.31
Including Margins:	74	29	97	38	65	25	83	33	40	16	49	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	23	9.08	32	12.77	22	8.73	31	12.28	21	8.41	30	11.83
Including Margins:	39	16	48	19	38	15	47	19	37	15	46	18
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	21	8.11	29	11.41	19	7.57	27	10.64	18	7.1	25	9.98
Including Margins:	37	15	45	18	35	14	43	17	34	14	41	16

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
*	407	Desert Sand-DK
𐀀	413	Pewter Gray-DK
𐀁	437	Tan-LT
𐀂	451	Shell Gray-DK
𐀃	452	Shell Gray-MD
■	500	Blue Green-VY DK
✕	503	Blue Green-MD
▲	524	Fern Green-VY LT
⊕	535	Ash Gray-VY LT
4	543	Beige Brown-UL VY LT
·	613	Drab Brown-VY LT
•	644	Beige Gray-MD
▣	645	Beaver Gray-VY DK
⊗	647	Beaver Gray-MD
⇒	648	Beaver Gray-LT
◊	712	Cream
○	738	Tan-VY LT
+	739	Tan-UL VY LT
«	746	Off White
:	822	Beige Gray-LT
➔	839	Beige Brown-DK
𐀄	841	Beige Brown-LT
⊗	842	Beige Brown-VY LT
←	844	Beaver Brown-UL DK
▲	926	Gray Green-MD
⊕	927	Gray Green-LT
#	928	Gray Green-VY LT

■	934	Black Avocado Green
●	938	Coffee Brown-UL DK
5	945	Tawny
•	951	Tawny-LT
⊕	3021	Brown Gray-VY DK
★	3022	Brown Gray-MD
⇄	3023	Brown Gray-LT
3	3024	Brown Gray-VY LT
⊕	3031	Mocha Brown-VY DK
8	3033	Mocha Brown-VY LT
⊕	3064	Desert Sand
0	3072	Beaver Gray-VY LT
●	3722	Shell Pink-MD
~	3770	Tawny-VY LT
⊕	3772	Desert Sand-VY DK
⊕	3781	Mocha Brown-DK
✕	3782	Mocha Brown-LT
~	3787	Brown Gray-DK
⊕	3799	Pewter Gray-VY DK
⊕	3813	Blue Green-LT
∞	3823	Yellow-UL Pale
••	3827	Golden Brown-Pale
√	3856	Mahogany-UL VY LT
†	3859	Rosewood-LT
■	3862	Mocha Beige-DK
↓	3864	Mocha Beige-LT
1	3865	Winter White
1	3866	Mocha Brown-UL VY LT
↑	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
●	934	Black Avocado Green	3799	Pewter Gray-VY DK
♥	3021	Brown Gray-VY DK	3799	Pewter Gray-VY DK
✕	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
🔪	3799	Pewter Gray-VY DK	844	Beaver Brown-UL DK
●	839	Beige Brown-DK	3787	Brown Gray-DK
♠	315	Antique Mauve-VY DK	3772	Desert Sand-VY DK
▨	315	Antique Mauve-VY DK	3860	Cocoa
♠	3860	Cocoa	3862	Mocha Beige-DK
☼	407	Desert Sand-DK	841	Beige Brown-LT
↑	758	Terra Cotta-VY LT	3856	Mahogany-UL VY LT
⦿	839	Beige Brown-DK	844	Beaver Brown-UL DK
☉	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
✕	841	Beige Brown-LT	3860	Cocoa
○	640	Beige Gray-VY DK	3860	Cocoa
III	738	Tan-VY LT	3864	Mocha Beige-LT
III	738	Tan-VY LT	758	Terra Cotta-VY LT
🔪	3863	Mocha Beige-MD	3864	Mocha Beige-LT
†	844	Beaver Brown-UL DK	3787	Brown Gray-DK
✕	3740	Antique Violet-DK	3787	Brown Gray-DK
☾	3860	Cocoa	3863	Mocha Beige-MD
◎	451	Shell Gray-DK	3861	Cocoa-LT
▼	315	Antique Mauve-VY DK	610	Drab Brown-DK
▨	3864	Mocha Beige-LT	407	Desert Sand-DK
🔪	535	Ash Gray-VY LT	413	Pewter Gray-DK
●	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
†	224	Shell Pink-VY LT	842	Beige Brown-VY LT
L	451	Shell Gray-DK	647	Beaver Gray-MD
*	645	Beaver Gray-VY DK	646	Beaver Gray-DK
◀	645	Beaver Gray-VY DK	926	Gray Green-MD
φ	3740	Antique Violet-DK	645	Beaver Gray-VY DK
/	739	Tan-UL VY LT	754	Peach-LT
↓	535	Ash Gray-VY LT	844	Beaver Brown-UL DK
☼	3860	Cocoa	645	Beaver Gray-VY DK
🔪	535	Ash Gray-VY LT	3799	Pewter Gray-VY DK
=	3860	Cocoa	646	Beaver Gray-DK
○	3022	Brown Gray-MD	3023	Brown Gray-LT
⚡	3863	Mocha Beige-MD	841	Beige Brown-LT
H	3859	Rosewood-LT	612	Drab Brown-LT
☼	524	Fern Green-VY LT	3864	Mocha Beige-LT
◀	841	Beige Brown-LT	3782	Mocha Brown-LT
×	524	Fern Green-VY LT	842	Beige Brown-VY LT
⊕	927	Gray Green-LT	503	Blue Green-MD
♠	452	Shell Gray-MD	927	Gray Green-LT
☼	3861	Cocoa-LT	3023	Brown Gray-LT
⬆	503	Blue Green-MD	451	Shell Gray-DK
▲	535	Ash Gray-VY LT	3787	Brown Gray-DK
✕	646	Beaver Gray-DK	3787	Brown Gray-DK
▨	3860	Cocoa	3787	Brown Gray-DK
◊	646	Beaver Gray-DK	841	Beige Brown-LT
♦	3022	Brown Gray-MD	3860	Cocoa
—	3856	Mahogany-UL VY LT	738	Tan-VY LT
♡	745	Yellow-LT Pale	754	Peach-LT
○	3823	Yellow-UL Pale	745	Yellow-LT Pale

(	3823	Yellow-UL Pale	353	Peach
o	745	Yellow-LT Pale	945	Tawny
)	745	Yellow-LT Pale	353	Peach
▲	3772	Desert Sand-VY DK	3859	Rosewood-LT
❖	612	Drab Brown-LT	3860	Cocoa
n	3823	Yellow-UL Pale	746	Off White
☒	738	Tan-VY LT	739	Tan-UL VY LT
⬢	645	Beaver Gray-VY DK	315	Antique Mauve-VY DK
7	754	Peach-LT	738	Tan-VY LT
☾	646	Beaver Gray-DK	926	Gray Green-MD
◇	738	Tan-VY LT	951	Tawny-LT
☒	3778	Terra Cotta-LT	402	Mahogany-VY LT
⋈	3859	Rosewood-LT	437	Tan-LT
≡	758	Terra Cotta-VY LT	402	Mahogany-VY LT
⋈	3856	Mahogany-UL VY LT	3064	Desert Sand
\$	3064	Desert Sand	738	Tan-VY LT
٪	3778	Terra Cotta-LT	3827	Golden Brown-Pale
//	3772	Desert Sand-VY DK	3064	Desert Sand
☒	645	Beaver Gray-VY DK	3022	Brown Gray-MD
☾	3721	Shell Pink-DK	3726	Antique Mauve-DK
↑	839	Beige Brown-DK	3834	Grape-DK
♣	3787	Brown Gray-DK	3834	Grape-DK
♣	535	Ash Gray-VY LT	3834	Grape-DK
✕	3834	Grape-DK	844	Beaver Brown-UL DK
⬢	413	Pewter Gray-DK	645	Beaver Gray-VY DK
◆	3799	Pewter Gray-VY DK	413	Pewter Gray-DK
♠	3860	Cocoa	3726	Antique Mauve-DK
✱	3863	Mocha Beige-MD	3726	Antique Mauve-DK
н	928	Gray Green-VY LT	3024	Brown Gray-VY LT
⋈	503	Blue Green-MD	647	Beaver Gray-MD
+	413	Pewter Gray-DK	926	Gray Green-MD
▮	646	Beaver Gray-DK	3726	Antique Mauve-DK
✱	413	Pewter Gray-DK	3021	Brown Gray-VY DK
^	948	Peach-VY LT	3823	Yellow-UL Pale
⬢	315	Antique Mauve-VY DK	612	Drab Brown-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	
224	Shell Pink-VY LT	16	6	15	5	13	5
315	Antique Mauve-VY DK	67	26	63	24	57	22
353	Peach	79	31	75	29	68	26
402	Mahogany-VY LT	22	8	21	8	19	7
407	Desert Sand-DK	166	65	158	62	142	55
413	Pewter Gray-DK	1185	466	1128	444	1015	399
437	Tan-LT	73	28	70	27	63	24
451	Shell Gray-DK	491	193	468	184	421	165
452	Shell Gray-MD	187	73	178	70	160	62
500	Blue Green-VY DK	16	6	15	5	14	5
503	Blue Green-MD	83	32	79	31	71	27
524	Fern Green-VY LT	385	151	367	144	330	129
535	Ash Gray-VY LT	1394	548	1327	522	1195	470
543	Beige Brown-UL VY LT	40	15	38	14	34	13
610	Drab Brown-DK	12	4	11	4	10	3
612	Drab Brown-LT	98	38	93	36	84	33
613	Drab Brown-VY LT	91	35	87	34	78	30
640	Beige Gray-VY DK	40	15	38	14	34	13
644	Beige Gray-MD	53	20	51	20	45	17
645	Beaver Gray-VY DK	1120	440	1067	420	960	377
646	Beaver Gray-DK	429	168	408	160	368	144
647	Beaver Gray-MD	273	107	260	102	234	92
648	Beaver Gray-LT	63	24	60	23	54	21
712	Cream	39	15	37	14	34	13
738	Tan-VY LT	408	160	389	153	350	137
739	Tan-UL VY LT	215	84	204	80	184	72
745	Yellow-LT Pale	115	45	109	42	98	38
746	Off White	394	155	376	148	338	133
754	Peach-LT	103	40	98	38	88	34
758	Terra Cotta-VY LT	99	38	94	37	85	33
822	Beige Gray-LT	28	11	27	10	24	9
839	Beige Brown-DK	154	60	146	57	132	51
841	Beige Brown-LT	591	232	563	221	507	199
842	Beige Brown-VY LT	330	129	314	123	283	111
844	Beaver Brown-UL DK	2186	860	2082	819	1874	737
926	Gray Green-MD	324	127	308	121	277	109
927	Gray Green-LT	134	52	128	50	115	45
928	Gray Green-VY LT	73	28	69	27	62	24
934	Black Avocado Green	234	92	223	87	201	79
938	Coffee Brown-UL DK	34	13	33	12	29	11
945	Tawny	102	40	97	38	88	34
948	Peach-VY LT	92	36	88	34	79	31
951	Tawny-LT	193	75	184	72	165	64
3021	Brown Gray-VY DK	1777	699	1692	666	1523	599
3022	Brown Gray-MD	245	96	233	91	210	82
3023	Brown Gray-LT	445	175	424	166	381	150
3024	Brown Gray-VY LT	109	42	104	40	93	36
3031	Mocha Brown-VY DK	110	43	104	40	94	37
3033	Mocha Brown-VY LT	12	4	12	4	10	3
3064	Desert Sand	212	83	202	79	182	71
3072	Beaver Gray-VY LT	42	16	40	15	36	14
3721	Shell Pink-DK	1	1	1	1	1	1
3722	Shell Pink-MD	3	1	3	1	3	1
3726	Antique Mauve-DK	72	28	69	27	62	24

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3740	Antique Violet-DK	124	48	118	46	106	41
3770	Tawny-VY LT	26	10	24	9	22	8
3772	Desert Sand-VY DK	104	40	99	38	89	35
3778	Terra Cotta-LT	16	6	15	5	13	5
3781	Mocha Brown-DK	18	7	18	7	16	6
3782	Mocha Brown-LT	252	99	240	94	216	85
3787	Brown Gray-DK	360	141	343	135	309	121
3799	Pewter Gray-VY DK	1949	767	1856	730	1670	657
3813	Blue Green-LT	20	7	19	7	17	6
3823	Yellow-UL Pale	485	190	462	181	416	163
3827	Golden Brown-Pale	26	10	24	9	22	8
3834	Grape-DK	136	53	129	50	116	45
3856	Mahogany-UL VY LT	180	70	172	67	154	60
3859	Rosewood-LT	148	58	141	55	127	50
3860	Cocoa	496	195	473	186	425	167
3861	Cocoa-LT	239	94	228	89	205	80
3862	Mocha Beige-DK	35	13	34	13	30	11
3863	Mocha Beige-MD	141	55	135	53	121	47
3864	Mocha Beige-LT	429	168	408	160	367	144
3865	Winter White	22	8	21	8	19	7
3866	Mocha Brown-UL VY LT	62	24	59	23	53	20
Ecru	Ecru	26	10	24	9	22	8

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	23	9	20	8	10	4
315	Antique Mauve-VY DK	103	40	86	33	43	17
353	Peach	122	47	102	39	51	20
402	Mahogany-VY LT	34	13	29	11	14	5
407	Desert Sand-DK	256	99	213	83	107	41
413	Pewter Gray-DK	1827	718	1523	599	761	299
437	Tan-LT	113	43	95	36	47	18
451	Shell Gray-DK	758	297	632	248	316	124
452	Shell Gray-MD	288	112	240	93	120	47
500	Blue Green-VY DK	25	9	21	8	11	4
503	Blue Green-MD	128	49	107	41	53	20
524	Fern Green-VY LT	594	232	495	194	248	97
535	Ash Gray-VY LT	2151	846	1793	705	896	353
543	Beige Brown-UL VY LT	61	23	51	20	26	10
610	Drab Brown-DK	18	5	15	5	8	2
612	Drab Brown-LT	151	59	126	50	63	25
613	Drab Brown-VY LT	140	54	117	45	59	23
640	Beige Gray-VY DK	61	23	51	20	26	10
644	Beige Gray-MD	81	31	68	26	34	13
645	Beaver Gray-VY DK	1728	679	1440	566	720	283
646	Beaver Gray-DK	662	259	552	216	276	108
647	Beaver Gray-MD	421	166	351	138	176	69
648	Beaver Gray-LT	97	38	81	32	41	16
712	Cream	61	23	51	20	26	10
738	Tan-VY LT	630	247	525	206	263	103
739	Tan-UL VY LT	331	130	276	108	138	54
745	Yellow-LT Pale	176	68	147	57	74	29
746	Off White	608	239	507	200	254	100
754	Peach-LT	158	61	132	51	66	26
758	Terra Cotta-VY LT	153	59	128	50	64	25



822	Beige Gray-LT	43	16	36	14	18	7
839	Beige Brown-DK	238	92	198	77	99	38
841	Beige Brown-LT	913	358	761	299	380	149
842	Beige Brown-VY LT	509	200	425	167	212	83
844	Beaver Brown-UL DK	3373	1327	2811	1106	1406	553
926	Gray Green-MD	499	196	416	164	208	82
927	Gray Green-LT	207	81	173	68	86	34
928	Gray Green-VY LT	112	43	93	36	47	18
934	Black Avocado Green	362	142	302	119	151	59
938	Coffee Brown-UL DK	52	20	44	17	22	8
945	Tawny	158	61	132	51	66	26
948	Peach-VY LT	142	56	119	47	59	23
951	Tawny-LT	297	115	248	96	124	48
3021	Brown Gray-VY DK	2741	1078	2285	899	1142	449
3022	Brown Gray-MD	378	148	315	123	158	62
3023	Brown Gray-LT	686	270	572	225	286	113
3024	Brown Gray-VY LT	167	65	140	54	70	27
3031	Mocha Brown-VY DK	169	67	141	56	71	28
3033	Mocha Brown-VY LT	18	5	15	5	8	2
3064	Desert Sand	328	128	273	107	137	53
3072	Beaver Gray-VY LT	65	25	54	21	27	11
3721	Shell Pink-DK	2	2	2	2	1	1
3722	Shell Pink-MD	5	2	5	2	2	1
3726	Antique Mauve-DK	112	43	93	36	47	18
3740	Antique Violet-DK	191	74	159	62	80	31
3770	Tawny-VY LT	40	14	33	12	17	6
3772	Desert Sand-VY DK	160	63	134	53	67	26
3778	Terra Cotta-LT	23	9	20	8	10	4
3781	Mocha Brown-DK	29	11	24	9	12	5
3782	Mocha Brown-LT	389	153	324	128	162	64
3787	Brown Gray-DK	556	218	464	182	232	91
3799	Pewter Gray-VY DK	3006	1183	2505	986	1253	493
3813	Blue Green-LT	31	11	26	9	13	5
3823	Yellow-UL Pale	749	293	624	245	312	122
3827	Golden Brown-Pale	40	14	33	12	17	6
3834	Grape-DK	209	81	174	68	87	34
3856	Mahogany-UL VY LT	277	108	231	90	116	45
3859	Rosewood-LT	229	90	191	75	95	38
3860	Cocoa	765	301	638	251	319	125
3861	Cocoa-LT	369	144	308	120	154	60
3862	Mocha Beige-DK	54	20	45	17	23	8
3863	Mocha Beige-MD	218	85	182	71	91	35
3864	Mocha Beige-LT	661	259	551	216	275	108
3865	Winter White	34	13	29	11	14	5
3866	Mocha Brown-UL VY LT	95	36	80	30	40	15
Ecru	Ecru	40	14	33	12	17	6

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	9	4	9	3	9	3
315	Antique Mauve-VY DK	41	16	39	15	38	15
353	Peach	49	19	47	18	45	17
402	Mahogany-VY LT	14	5	13	5	13	5
407	Desert Sand-DK	102	40	98	38	95	37
413	Pewter Gray-DK	731	287	703	276	677	266

437	Tan-LT	45	17	44	17	42	16
451	Shell Gray-DK	303	119	291	114	281	110
452	Shell Gray-MD	115	45	111	43	107	41
500	Blue Green-VY DK	10	4	10	3	9	3
503	Blue Green-MD	51	19	49	19	47	18
524	Fern Green-VY LT	238	93	228	89	220	86
535	Ash Gray-VY LT	860	338	827	325	797	313
543	Beige Brown-UL VY LT	24	9	24	9	23	9
610	Drab Brown-DK	7	2	7	2	7	2
612	Drab Brown-LT	60	24	58	23	56	22
613	Drab Brown-VY LT	56	22	54	21	52	20
640	Beige Gray-VY DK	24	9	24	9	23	9
644	Beige Gray-MD	32	12	31	12	30	11
645	Beaver Gray-VY DK	691	271	665	261	640	251
646	Beaver Gray-DK	265	104	255	100	245	96
647	Beaver Gray-MD	168	66	162	64	156	61
648	Beaver Gray-LT	39	15	37	15	36	14
712	Cream	24	9	24	9	23	9
738	Tan-VY LT	252	99	242	95	233	91
739	Tan-UL VY LT	132	52	127	50	123	48
745	Yellow-LT Pale	71	27	68	26	65	25
746	Off White	243	96	234	92	225	89
754	Peach-LT	63	24	61	24	59	23
758	Terra Cotta-VY LT	61	24	59	23	57	22
822	Beige Gray-LT	17	6	17	6	16	6
839	Beige Brown-DK	95	37	91	35	88	34
841	Beige Brown-LT	365	143	351	138	338	133
842	Beige Brown-VY LT	204	80	196	77	189	74
844	Beaver Brown-UL DK	1349	531	1297	510	1249	491
926	Gray Green-MD	199	78	192	75	185	73
927	Gray Green-LT	83	32	80	31	77	30
928	Gray Green-VY LT	45	17	43	17	41	16
934	Black Avocado Green	145	57	139	55	134	53
938	Coffee Brown-UL DK	21	8	20	8	19	7
945	Tawny	63	24	61	24	59	23
948	Peach-VY LT	57	22	55	21	53	21
951	Tawny-LT	119	46	114	44	110	43
3021	Brown Gray-VY DK	1097	431	1054	415	1015	399
3022	Brown Gray-MD	151	59	145	57	140	55
3023	Brown Gray-LT	274	108	264	104	254	100
3024	Brown Gray-VY LT	67	26	64	25	62	24
3031	Mocha Brown-VY DK	68	27	65	26	63	25
3033	Mocha Brown-VY LT	7	2	7	2	7	2
3064	Desert Sand	131	51	126	49	121	47
3072	Beaver Gray-VY LT	26	10	25	10	24	9
3721	Shell Pink-DK	1	1	1	1	1	1
3722	Shell Pink-MD	2	1	2	1	2	1
3726	Antique Mauve-DK	45	17	43	17	41	16
3740	Antique Violet-DK	76	30	73	28	71	27
3770	Tawny-VY LT	16	6	15	6	15	5
3772	Desert Sand-VY DK	64	25	62	24	59	23
3778	Terra Cotta-LT	9	4	9	3	9	3
3781	Mocha Brown-DK	12	4	11	4	11	4
3782	Mocha Brown-LT	156	61	150	59	144	57
3787	Brown Gray-DK	222	87	214	84	206	81
3799	Pewter Gray-VY DK	1202	473	1156	455	1113	438
3813	Blue Green-LT	12	4	12	4	11	4
3823	Yellow-UL Pale	300	117	288	113	277	109
3827	Golden Brown-Pale	16	6	15	6	15	5

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3834	Grape-DK	84	32	80	31	77	30
3856	Mahogany-UL VY LT	111	43	107	42	103	40
3859	Rosewood-LT	91	36	88	35	85	33
3860	Cocoa	306	120	294	116	283	111
3861	Cocoa-LT	148	58	142	55	137	53
3862	Mocha Beige-DK	22	8	21	8	20	7
3863	Mocha Beige-MD	87	34	84	33	81	31
3864	Mocha Beige-LT	264	104	254	100	245	96
3865	Winter White	14	5	13	5	13	5
3866	Mocha Brown-UL VY LT	38	14	37	14	35	13
Ecru	Ecru	16	6	15	6	15	5

Extended thread usage table.

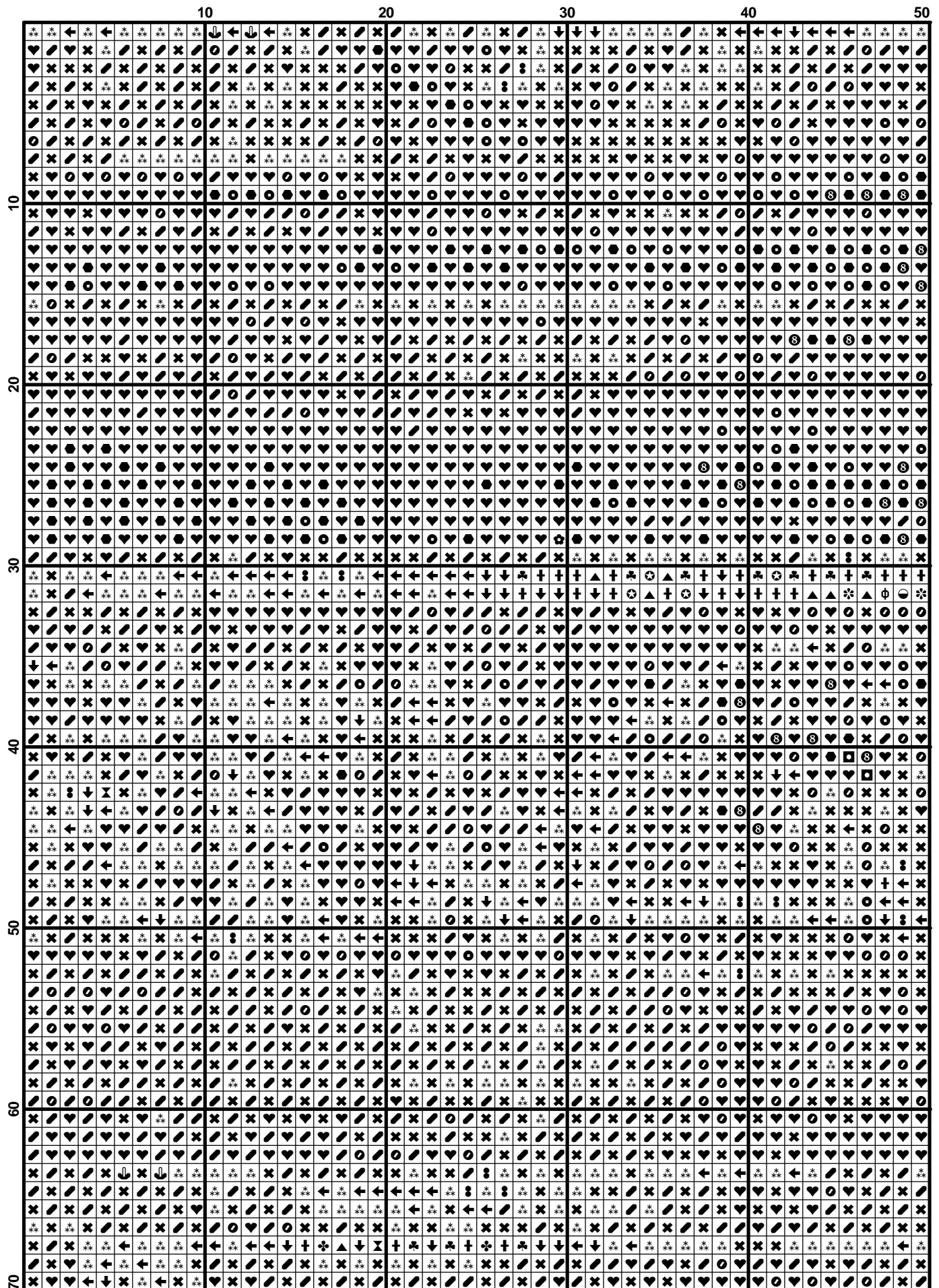
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
224	Shell Pink-VY LT	8	3	8	3	7	3
315	Antique Mauve-VY DK	37	14	34	13	32	12
353	Peach	44	17	41	16	38	15
402	Mahogany-VY LT	12	5	11	4	11	4
407	Desert Sand-DK	91	35	85	33	80	31
413	Pewter Gray-DK	653	257	609	239	571	224
437	Tan-LT	41	15	38	14	35	14
451	Shell Gray-DK	271	106	253	99	237	93
452	Shell Gray-MD	103	40	96	37	90	35
500	Blue Green-VY DK	9	3	8	3	8	3
503	Blue Green-MD	46	17	43	16	40	15
524	Fern Green-VY LT	212	83	198	77	186	73
535	Ash Gray-VY LT	768	302	717	282	672	264
543	Beige Brown-UL VY LT	22	8	20	8	19	7
610	Drab Brown-DK	6	2	6	2	6	2
612	Drab Brown-LT	54	21	50	20	47	19
613	Drab Brown-VY LT	50	19	47	18	44	17
640	Beige Gray-VY DK	22	8	20	8	19	7
644	Beige Gray-MD	29	11	27	10	25	10
645	Beaver Gray-VY DK	617	242	576	226	540	212
646	Beaver Gray-DK	237	93	221	86	207	81
647	Beaver Gray-MD	150	59	140	55	132	52
648	Beaver Gray-LT	35	14	32	13	30	12
712	Cream	22	8	20	8	19	7
738	Tan-VY LT	225	88	210	82	197	77
739	Tan-UL VY LT	118	46	110	43	104	41
745	Yellow-LT Pale	63	24	59	23	55	21
746	Off White	217	86	203	80	190	75
754	Peach-LT	57	22	53	20	50	19
758	Terra Cotta-VY LT	55	21	51	20	48	19
822	Beige Gray-LT	15	6	14	5	14	5
839	Beige Brown-DK	85	33	79	31	74	29
841	Beige Brown-LT	326	128	304	119	285	112
842	Beige Brown-VY LT	182	71	170	67	159	62
844	Beaver Brown-UL DK	1205	474	1124	442	1054	415
926	Gray Green-MD	178	70	166	65	156	61
927	Gray Green-LT	74	29	69	27	65	25
928	Gray Green-VY LT	40	15	37	14	35	14
934	Black Avocado Green	129	51	121	47	113	44
938	Coffee Brown-UL DK	19	7	17	7	16	6
945	Tawny	57	22	53	20	50	19
948	Peach-VY LT	51	20	47	19	44	17

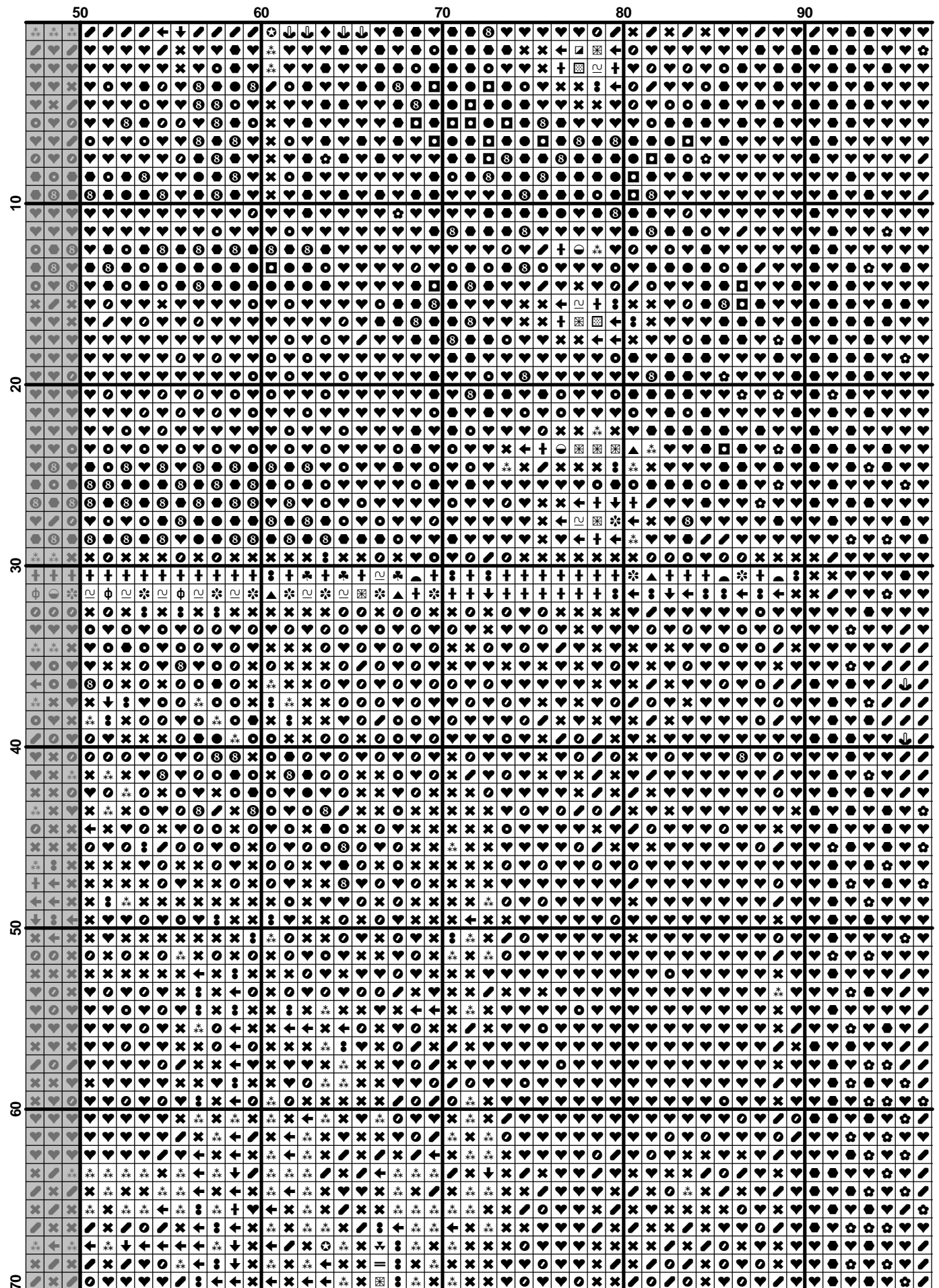
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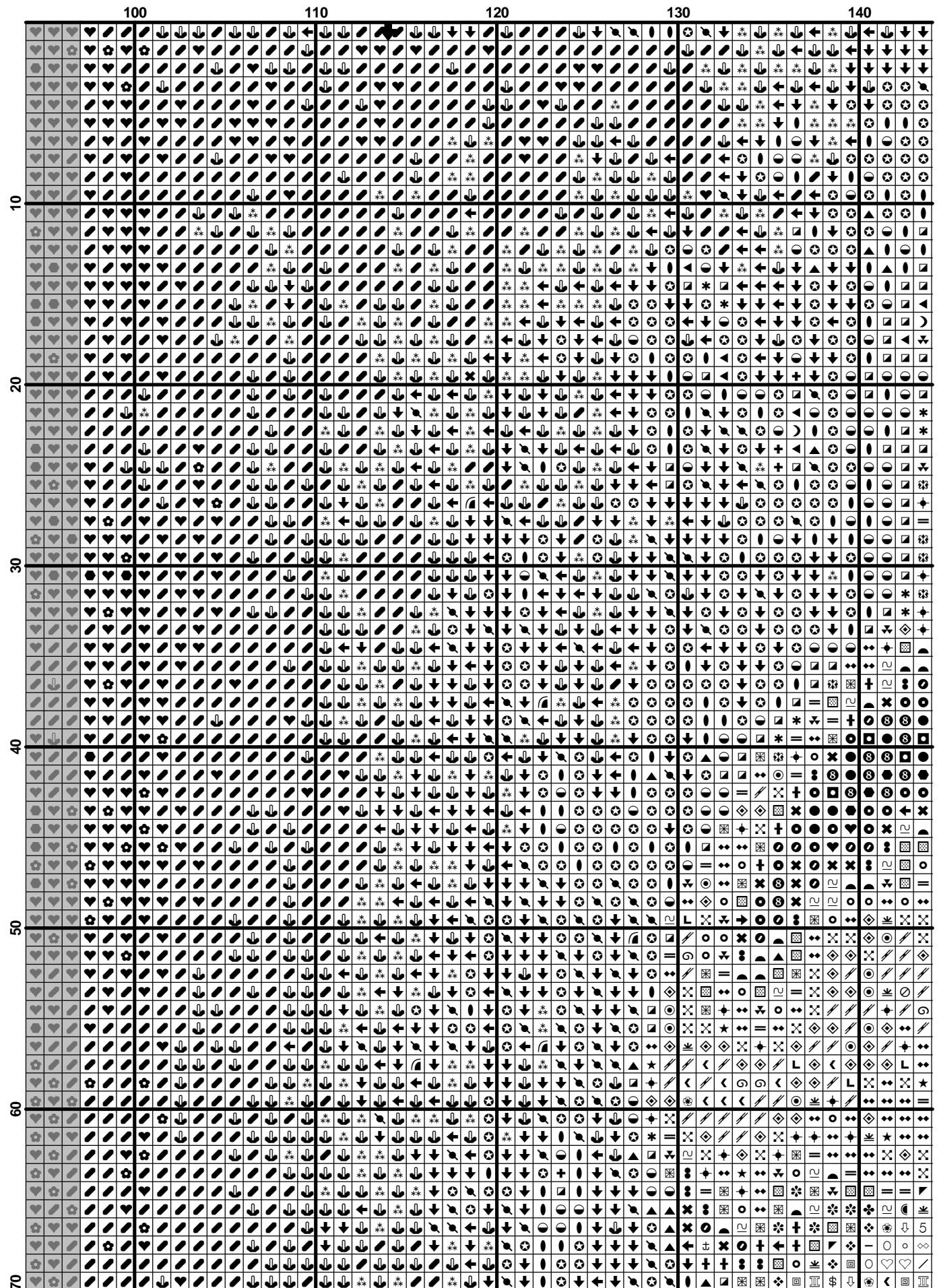
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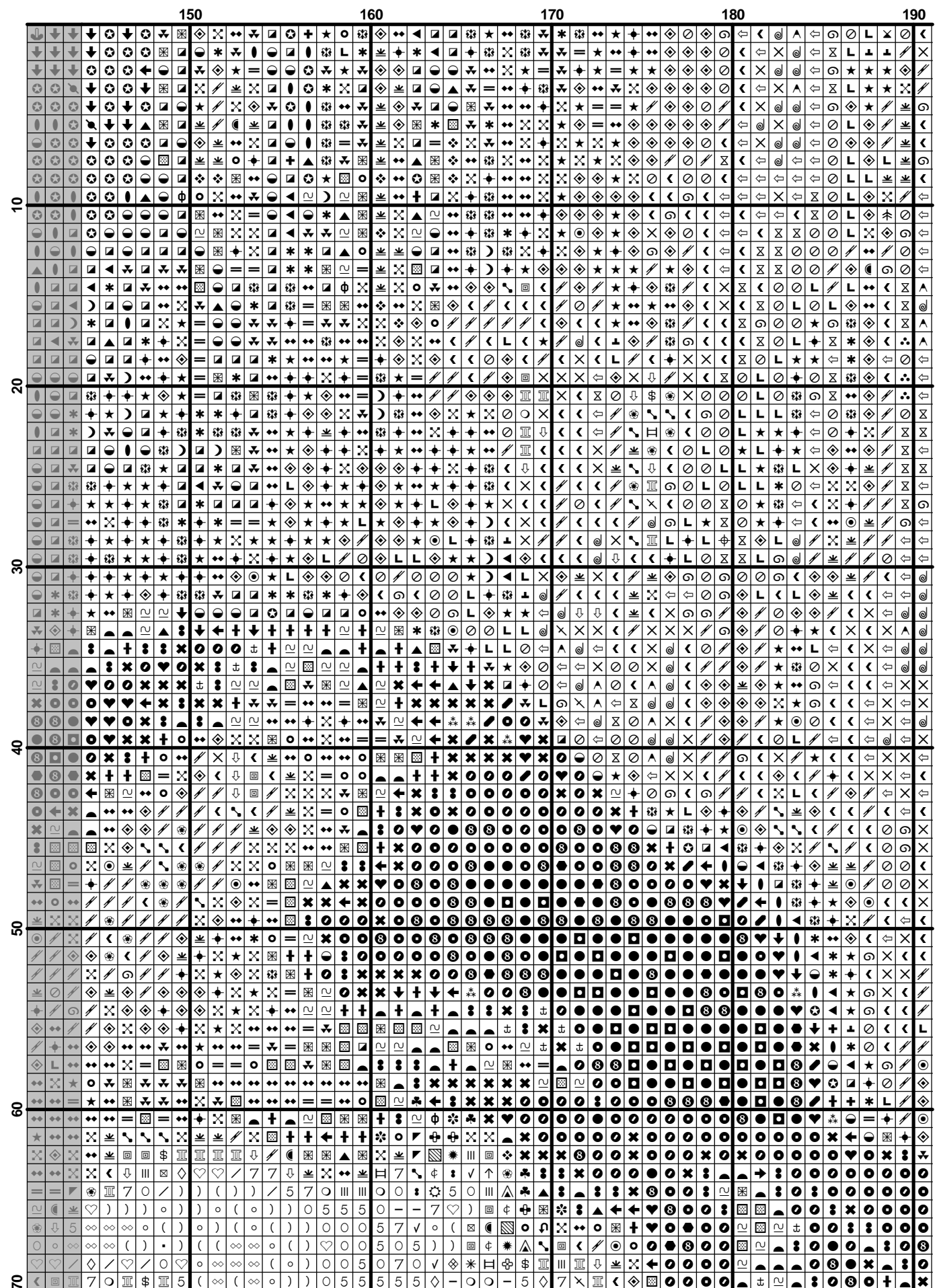
951	Tawny-LT	106	41	99	38	93	36
3021	Brown Gray-VY DK	979	385	914	359	857	337
3022	Brown Gray-MD	135	53	126	49	118	46
3023	Brown Gray-LT	245	96	229	90	214	84
3024	Brown Gray-VY LT	60	23	56	22	52	20
3031	Mocha Brown-VY DK	60	24	56	22	53	21
3033	Mocha Brown-VY LT	6	2	6	2	6	2
3064	Desert Sand	117	46	109	43	102	40
3072	Beaver Gray-VY LT	23	9	22	8	20	8
3721	Shell Pink-DK	1	1	1	1	1	1
3722	Shell Pink-MD	2	1	2	1	2	1
3726	Antique Mauve-DK	40	15	37	14	35	14
3740	Antique Violet-DK	68	26	64	25	60	23
3770	Tawny-VY LT	14	5	13	5	12	5
3772	Desert Sand-VY DK	57	23	53	21	50	20
3778	Terra Cotta-LT	8	3	8	3	7	3
3781	Mocha Brown-DK	10	4	10	4	9	3
3782	Mocha Brown-LT	139	55	130	51	122	48
3787	Brown Gray-DK	199	78	185	73	174	68
3799	Pewter Gray-VY DK	1074	422	1002	394	939	370
3813	Blue Green-LT	11	4	10	4	10	3
3823	Yellow-UL Pale	267	105	250	98	234	92
3827	Golden Brown-Pale	14	5	13	5	12	5
3834	Grape-DK	75	29	70	27	65	25
3856	Mahogany-UL VY LT	99	39	92	36	87	34
3859	Rosewood-LT	82	32	76	30	71	28
3860	Cocoa	273	107	255	100	239	94
3861	Cocoa-LT	132	51	123	48	115	45
3862	Mocha Beige-DK	19	7	18	7	17	6
3863	Mocha Beige-MD	78	30	73	28	68	26
3864	Mocha Beige-LT	236	93	220	86	206	81
3865	Winter White	12	5	11	4	11	4
3866	Mocha Brown-UL VY LT	34	13	32	12	30	11
Ecru	Ecru	14	5	13	5	12	5



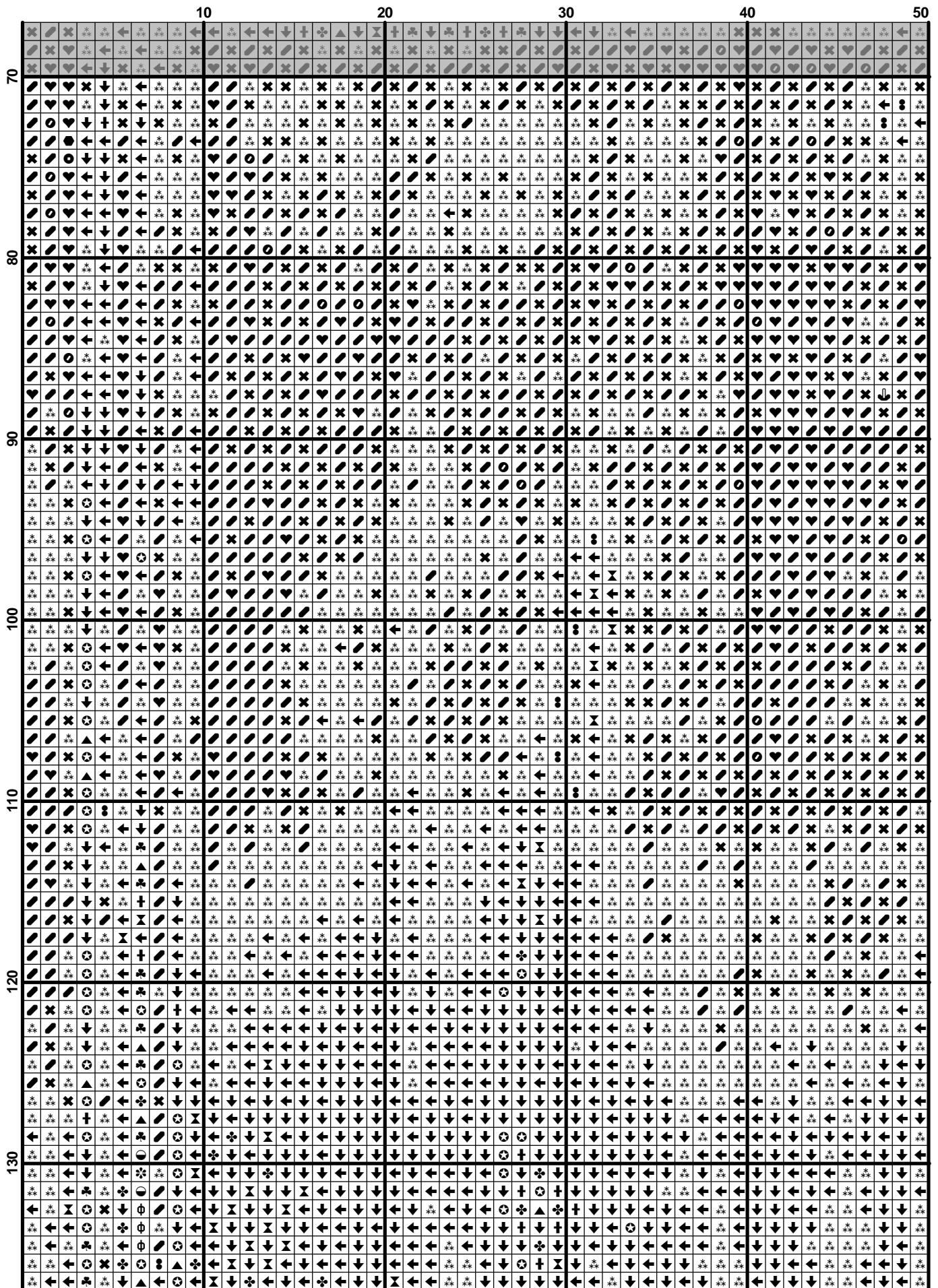


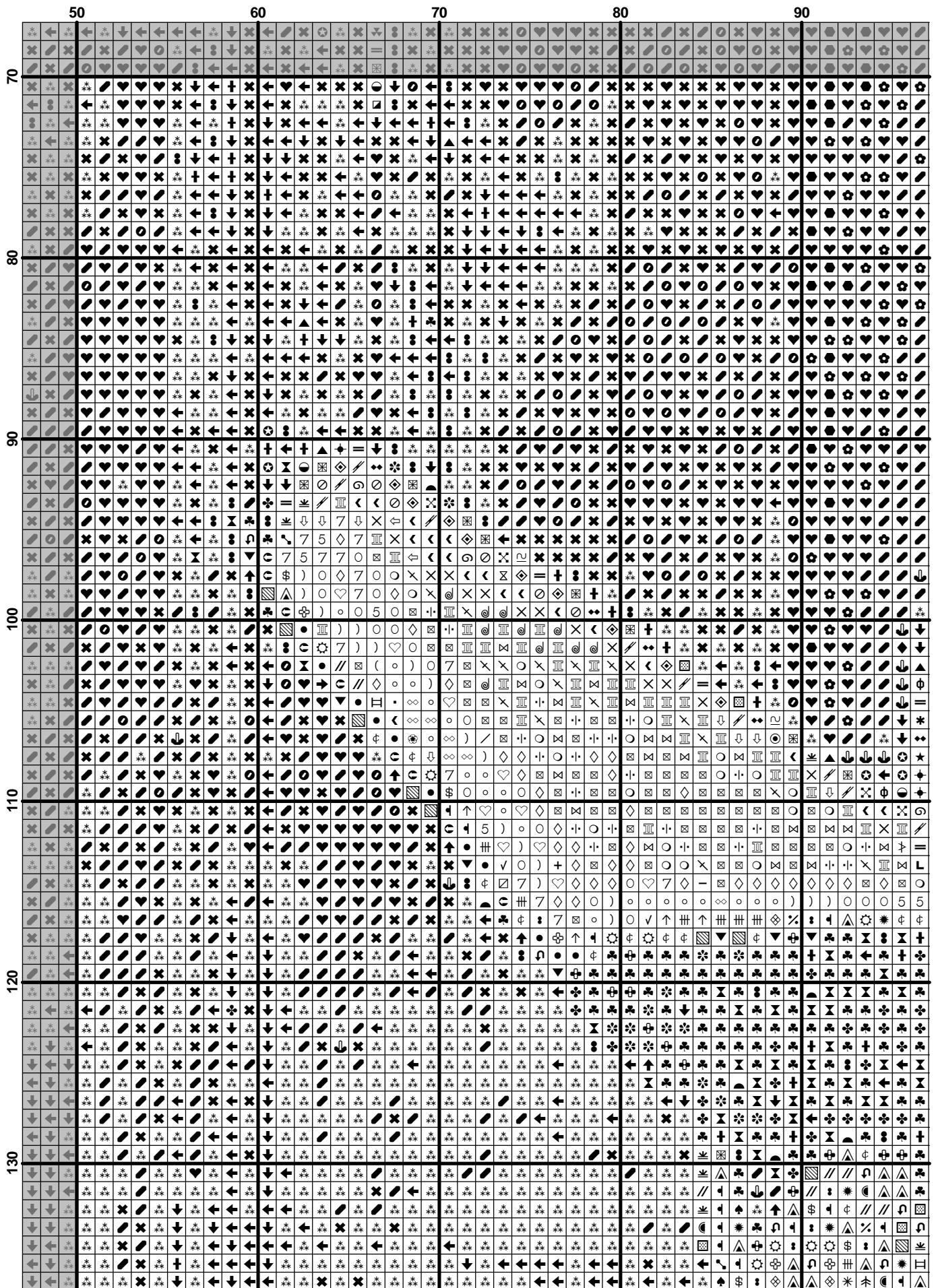






	190	200	210	220
10				
20				
30				
40				
50				
60				
70				



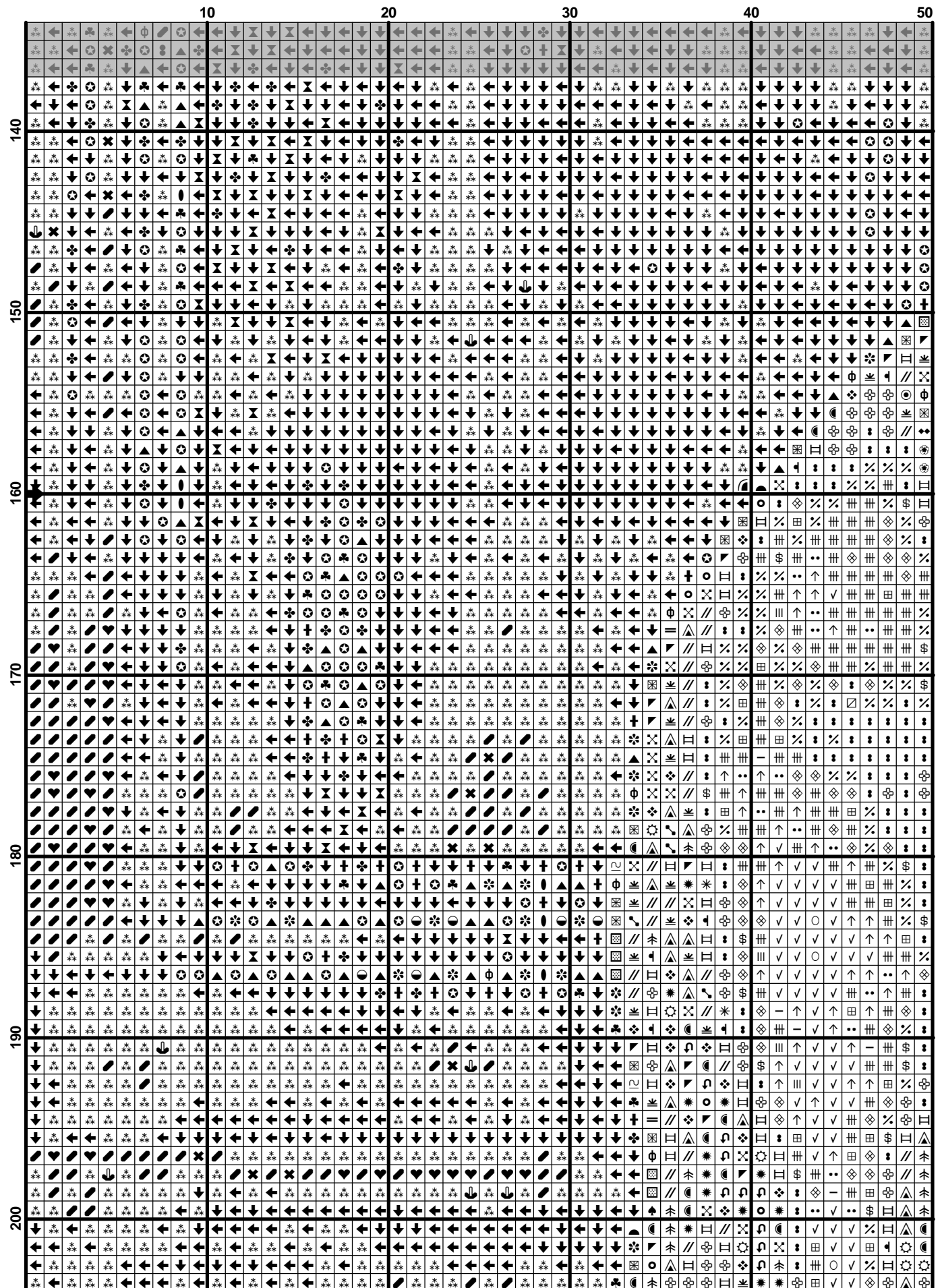


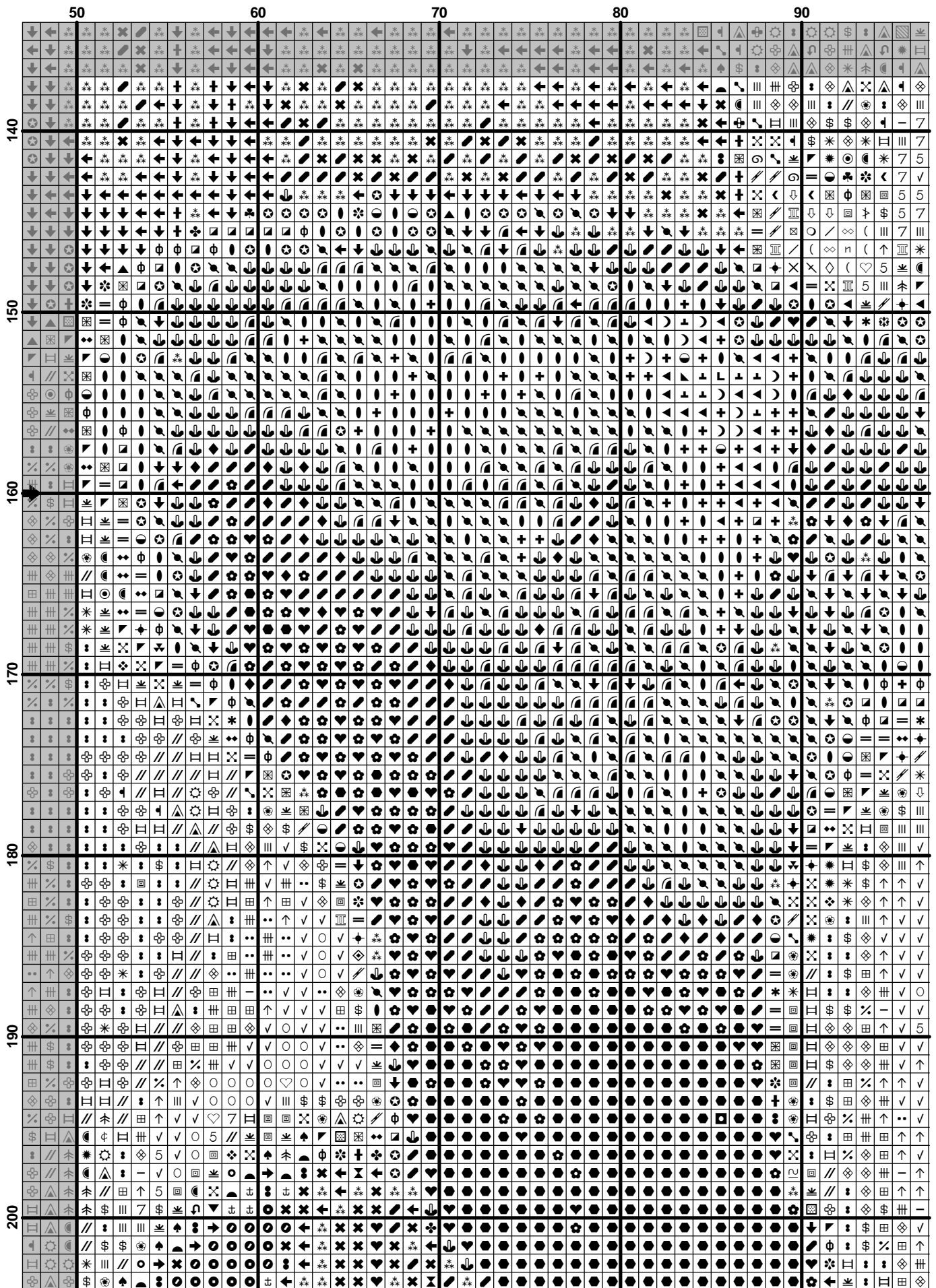
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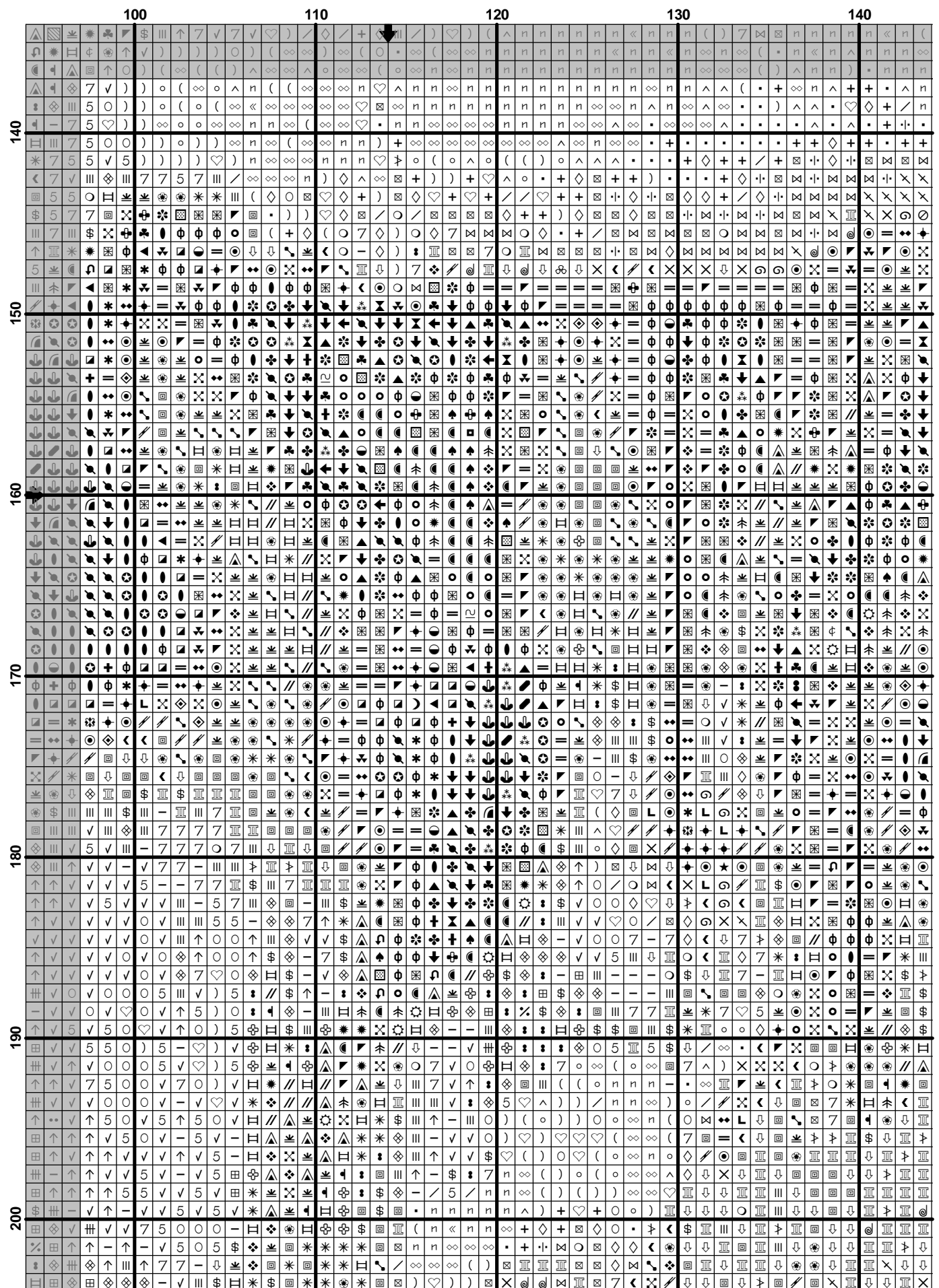
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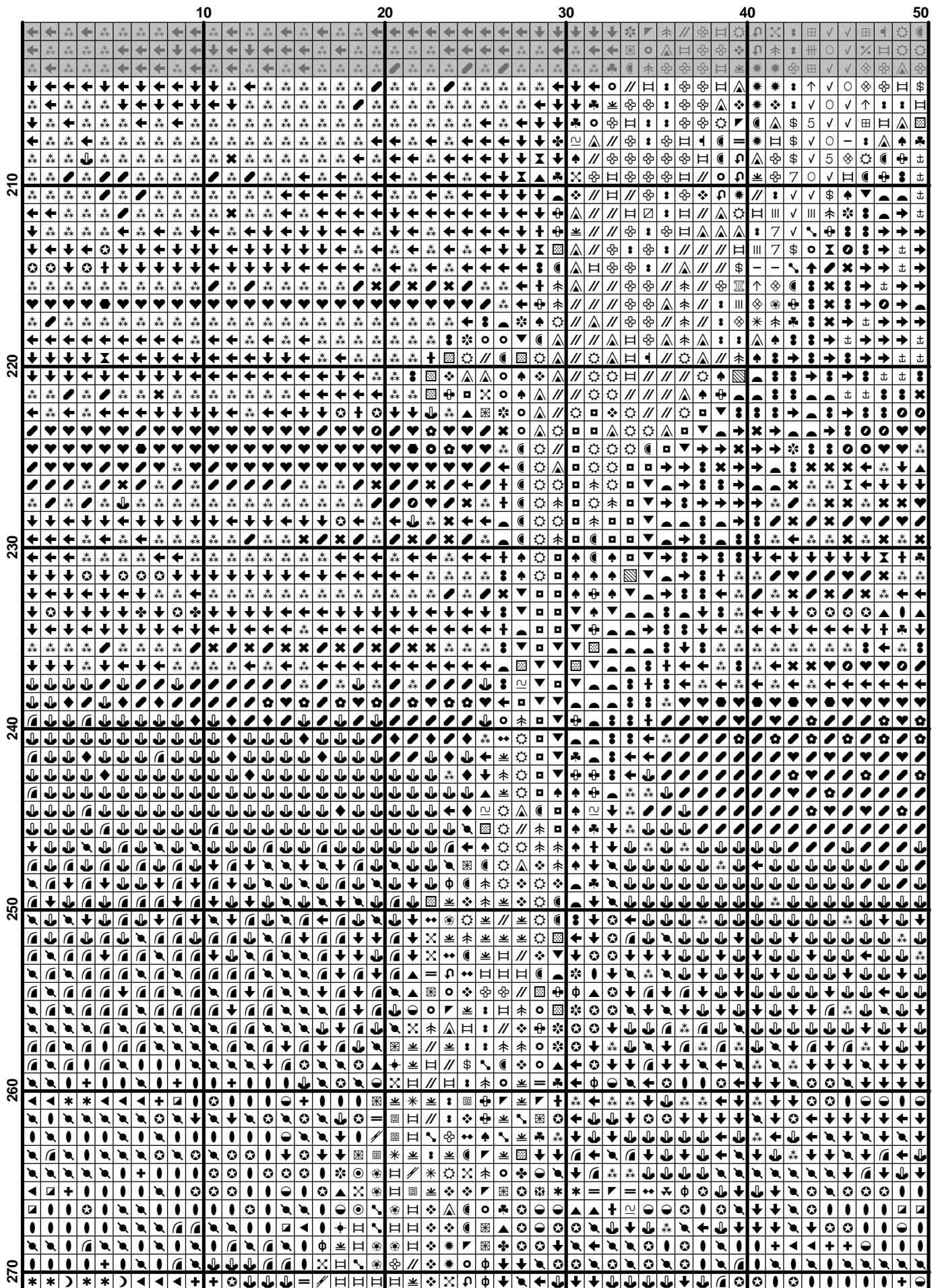






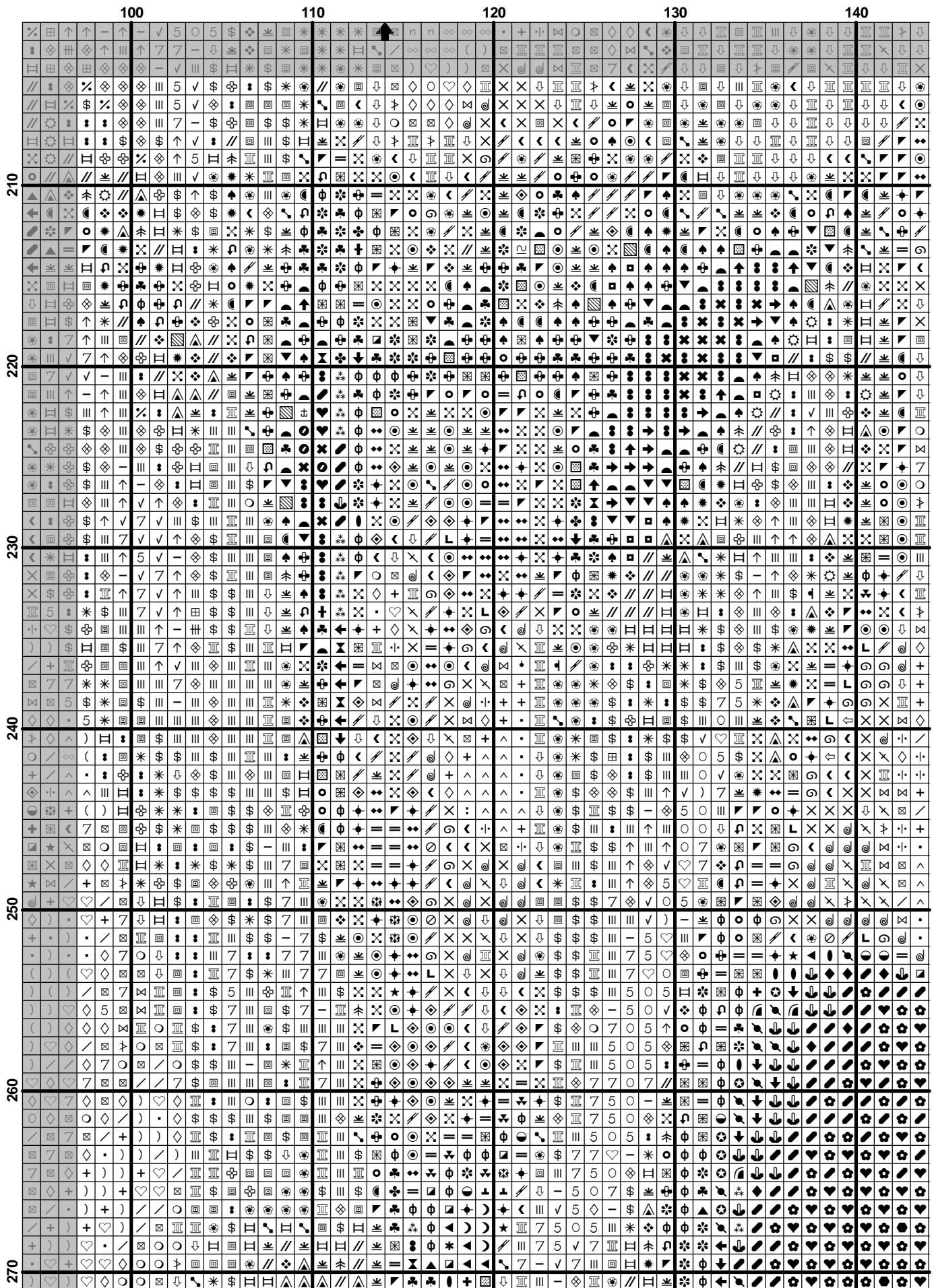
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(20)



	50	60	70	80	90
210	...	...	...	...	...
220	...	...	...	...	...
230	...	...	...	...	...
240	...	...	...	...	...
250	...	...	...	...	...
260	...	...	...	...	...
270	...	...	...	...	...





$$(24) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	190	200	210	220
210				
220				
230				
240				
250				
260				
270				

