

# 1138 Planning the Grand Tour



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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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## Planning the Grand Tour

Stitch Count	
Horizontal:	400
Vertical:	522

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:	73	28.44	95	37.28	64	24.89	83	32.62	57	22.125	74	29
Including Margins:	89	35	111	44	80	31	99	39	73	29	90	36
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	102	39.81	133	52.19	85	33.18	110	43.49	42	16.59	55	21.74
Including Margins:	118	46	149	59	101	40	126	50	58	23	71	28
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	40	15.92	53	20.87	39	15.31	51	20.07	37	14.74	49	19.33
Including Margins:	56	22	69	27	55	22	67	27	53	21	65	26
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	36	14.22	47	18.64	34	13.27	44	17.39	31	12.44	41	16.31
Including Margins:	52	21	63	25	50	20	60	24	47	19	57	23

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
♡	307	Lemon
■	310	Black
4	352	Coral-LT
(	353	Peach
⦿	371	Mustard
⌘	402	Mahogany-VY LT
○	407	Desert Sand-DK
⇄	415	Pearl Gray
⋈	420	Hazelnut Brown-DK
◁	436	Tan
√	452	Shell Gray-MD
●	500	Blue Green-VY DK
~	522	Fern Green
	523	Fern Green-LT
♠	535	Ash Gray-VY LT
♦♦	610	Drab Brown-DK
◀	611	Drab Brown
⤴	612	Drab Brown-LT
◦	632	Desert Sand-UL VY DK
◊	644	Beige Gray-MD
⌚	645	Beaver Gray-VY DK
↖	646	Beaver Gray-DK
≡	722	Orange Spice-LT
⇒	725	Topaz
▷	726	Topaz-LT
✓	733	Olive Green-MD
•	739	Tan-UL VY LT
◦	744	Yellow-Pale
1	746	Off White
▷	754	Peach-LT
α	758	Terra Cotta-VY LT
^	762	Pearl Gray-VY LT
↑	783	Topaz-MD
*	830	Golden Olive-DK
⌘	831	Golden Olive-MD
≡	832	Golden Olive
↓	838	Beige Brown-VY DK
✱	839	Beige Brown-DK
☾	869	Hazelnut Brown-VY DK
⌘	924	Gray Green--VY DK
☾	926	Gray Green-MD

⌘	927	Gray Green-LT
c	932	Antique Blue-LT
✱	934	Black Avocado Green
⌘	948	Peach-VY LT
v	950	Desert Sand-LT
✱	3011	Khaki Green-DK
⌘	3012	Khaki Green-MD
⌘	3013	Khaki Green-LT
⋈	3021	Brown Gray-VY DK
☾	3031	Mocha Brown-VY DK
⊙	3041	Antique Violet-MD
h	3045	Yellow Beige-DK
=	3046	Yellow Beige-MD
●	3051	Green Gray-DK
□	3072	Beaver Gray-VY LT
◇	3078	Golden Yellow-VY LT
⌘	3363	Pine Green-MD
■	3371	Black Brown
h	3756	Baby Blue-UL VY LT
▶	3768	Gray Green-DK
◀	3770	Tawny-VY LT
⌘	3776	Mahogany-LT
⌘	3779	Terra Cotta-UL VY LT
▲	3781	Mocha Brown-DK
✱	3787	Brown Gray-DK
⌘	3813	Blue Green-LT
⌘	3816	Celadon Green-MD
g	3820	Straw-DK
<	3822	Straw-LT
◊	3823	Yellow-UL Pale
◊	3825	Pumpkin-Pale
⌘	3826	Golden Brown
	3828	Hazelnut Brown
z	3829	Old Gold-VY DK
⌘	3847	Teal Green-DK
↖	3848	Teal Green-MD
↑	3855	Autumn Gold-LT
L	3856	Mahogany-UL VY LT
#	3861	Cocoa-LT
⌘	3862	Mocha Beige-DK
⌘	3864	Mocha Beige-LT
u	3865	Winter White
~	Ecru	Ecru

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
✱	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
☾	610	Drab Brown-DK	3862	Mocha Beige-DK
⋈	3012	Khaki Green-MD	420	Hazelnut Brown-DK
⤴	520	Fern Green-DK	935	Avocado Green-DK
●	3021	Brown Gray-VY DK	3051	Green Gray-DK

♣	844	Beaver Brown-UL DK	3021	Brown Gray-VY DK
☒	3362	Pine Green-DK	844	Beaver Brown-UL DK
III	414	Steel Gray-DK	927	Gray Green-LT
m	734	Olive Green-LT	3045	Yellow Beige-DK
♠	434	Brown-LT	435	Brown-VY LT
☒	844	Beaver Brown-UL DK	3787	Brown Gray-DK
✂	3012	Khaki Green-MD	371	Mustard
✓	3045	Yellow Beige-DK	371	Mustard
¢	520	Fern Green-DK	3799	Pewter Gray-VY DK
■	610	Drab Brown-DK	839	Beige Brown-DK
///	3862	Mocha Beige-DK	611	Drab Brown
☒	3362	Pine Green-DK	3799	Pewter Gray-VY DK
?	501	Blue Green-DK	844	Beaver Brown-UL DK
☒	3363	Pine Green-MD	645	Beaver Gray-VY DK
+	3046	Yellow Beige-MD	734	Olive Green-LT
e	3045	Yellow Beige-DK	3046	Yellow Beige-MD
☒	839	Beige Brown-DK	3362	Pine Green-DK
◎	611	Drab Brown	3787	Brown Gray-DK
//	3363	Pine Green-MD	3787	Brown Gray-DK
✂	935	Avocado Green-DK	3799	Pewter Gray-VY DK
=	610	Drab Brown-DK	632	Desert Sand-UL VY DK
✂	610	Drab Brown-DK	611	Drab Brown
▼	610	Drab Brown-DK	3787	Brown Gray-DK
↓	611	Drab Brown	3052	Green Gray-MD
✂	3787	Brown Gray-DK	3362	Pine Green-DK
◀	839	Beige Brown-DK	3011	Khaki Green-DK
田	522	Fern Green	371	Mustard
△	3045	Yellow Beige-DK	3348	Yellow Green-LT
△	3348	Yellow Green-LT	3046	Yellow Beige-MD
‡	3348	Yellow Green-LT	522	Fern Green
✂	3816	Celadon Green-MD	645	Beaver Gray-VY DK
‡	832	Golden Olive	3347	Yellow Green-MD
§	832	Golden Olive	444	Lemon-DK
⊗	611	Drab Brown	3772	Desert Sand-VY DK
▲	367	Pistachio Green-DK	535	Ash Gray-VY LT
✂	501	Blue Green-DK	535	Ash Gray-VY LT
▲	367	Pistachio Green-DK	3787	Brown Gray-DK
×	3363	Pine Green-MD	3816	Celadon Green-MD
☒	3363	Pine Green-MD	522	Fern Green
▲	522	Fern Green	3816	Celadon Green-MD
..	522	Fern Green	523	Fern Green-LT
↓	501	Blue Green-DK	3799	Pewter Gray-VY DK
♠	3781	Mocha Brown-DK	3011	Khaki Green-DK
◎	733	Olive Green-MD	3829	Old Gold-VY DK
\$	832	Golden Olive	3829	Old Gold-VY DK
½	831	Golden Olive-MD	832	Golden Olive
♠	733	Olive Green-MD	831	Golden Olive-MD
♠	832	Golden Olive	734	Olive Green-LT
☒	830	Golden Olive-DK	3781	Mocha Brown-DK
♥	934	Black Avocado Green	3799	Pewter Gray-VY DK
☒	3847	Teal Green-DK	924	Gray Green-VY DK
☒	501	Blue Green-DK	520	Fern Green-DK
†	535	Ash Gray-VY LT	3799	Pewter Gray-VY DK
☒	3363	Pine Green-MD	3814	Aquamarine
☒	3814	Aquamarine	3768	Gray Green-DK
♠	367	Pistachio Green-DK	3768	Gray Green-DK
○	924	Gray Green-VY DK	500	Blue Green-VY DK
●	310	Black	924	Gray Green-VY DK
●	934	Black Avocado Green	310	Black

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☼	561	Jade-VY DK	924	Gray Green--VY DK
Φ	3847	Teal Green-DK	561	Jade-VY DK
◊	561	Jade-VY DK	500	Blue Green-VY DK
◆	934	Black Avocado Green	3021	Brown Gray-VY DK
5	977	Golden Brown-LT	3820	Straw-DK
⌌	783	Topaz-MD	3776	Mahogany-LT
×	783	Topaz-MD	680	Old Gold-DK
⌋	3828	Hazelnut Brown	3776	Mahogany-LT
⊞	3776	Mahogany-LT	680	Old Gold-DK
▲	367	Pistachio Green-DK	645	Beaver Gray-VY DK
⌒	371	Mustard	435	Brown-VY LT
:	3855	Autumn Gold-LT	402	Mahogany-VY LT
●	434	Brown-LT	632	Desert Sand-UL VY DK
▣	436	Tan	632	Desert Sand-UL VY DK
❖	831	Golden Olive-MD	434	Brown-LT
)	725	Topaz	3855	Autumn Gold-LT
—	3045	Yellow Beige-DK	402	Mahogany-VY LT
/	402	Mahogany-VY LT	834	Golden Olive-VY LT
7	371	Mustard	472	Avocado Green-UL LT
♣	833	Golden Olive-LT	977	Golden Brown-LT
6	758	Terra Cotta-VY LT	3046	Yellow Beige-MD
∇	3776	Mahogany-LT	402	Mahogany-VY LT
∪	3776	Mahogany-LT	754	Peach-LT
+	632	Desert Sand-UL VY DK	3781	Mocha Brown-DK
◇	3012	Khaki Green-MD	632	Desert Sand-UL VY DK
3	402	Mahogany-VY LT	722	Orange Spice-LT
::	436	Tan	3013	Khaki Green-LT
×	3826	Golden Brown	3830	Terra Cotta-MD
▼	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
➔	838	Beige Brown-VY DK	3781	Mocha Brown-DK
·∪·	754	Peach-LT	356	Terra Cotta-MD
≈	3045	Yellow Beige-DK	3776	Mahogany-LT
›	420	Hazelnut Brown-DK	435	Brown-VY LT
L	3826	Golden Brown	3862	Mocha Beige-DK
✱	3862	Mocha Beige-DK	632	Desert Sand-UL VY DK
★	3826	Golden Brown	632	Desert Sand-UL VY DK
◎	356	Terra Cotta-MD	435	Brown-VY LT
☆	833	Golden Olive-LT	734	Olive Green-LT
2	783	Topaz-MD	833	Golden Olive-LT
◇	3348	Yellow Green-LT	3813	Blue Green-LT
l	3078	Golden Yellow-VY LT	3046	Yellow Beige-MD
o	828	Blue-UL VY LT	415	Pearl Gray
◐	3772	Desert Sand-VY DK	371	Mustard
⊕	352	Coral-LT	754	Peach-LT
③	3371	Black Brown	3031	Mocha Brown-VY DK
⓪	783	Topaz-MD	3826	Golden Brown
⊕	3826	Golden Brown	3829	Old Gold-VY DK
♠	680	Old Gold-DK	420	Hazelnut Brown-DK
↑	500	Blue Green-VY DK	3847	Teal Green-DK
■	3809	Turquoise-VY DK	3847	Teal Green-DK
✦	520	Fern Green-DK	3863	Mocha Beige-MD
⌐	3856	Mahogany-UL VY LT	3823	Yellow-UL Pale



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	
307	Lemon	24	9	23	9	20	7
310	Black	3731	1468	3553	1398	3198	1259
352	Coral-LT	95	37	91	35	82	32
353	Peach	152	59	145	57	130	51
356	Terra Cotta-MD	114	44	108	42	97	38
367	Pistachio Green-DK	595	234	566	222	510	200
371	Mustard	724	285	689	271	620	244
402	Mahogany-VY LT	444	174	423	166	381	150
407	Desert Sand-DK	73	28	70	27	63	24
414	Steel Gray-DK	49	19	47	18	42	16
415	Pearl Gray	240	94	229	90	206	81
420	Hazelnut Brown-DK	513	201	488	192	439	172
434	Brown-LT	323	127	308	121	277	109
435	Brown-VY LT	276	108	263	103	236	92
436	Tan	214	84	204	80	184	72
444	Lemon-DK	49	19	47	18	42	16
452	Shell Gray-MD	33	12	31	12	28	11
472	Avocado Green-UL LT	63	24	60	23	54	21
500	Blue Green-VY DK	1475	580	1405	553	1264	497
501	Blue Green-DK	1454	572	1385	545	1246	490
520	Fern Green-DK	957	376	912	359	820	322
522	Fern Green	1015	399	966	380	870	342
523	Fern Green-LT	549	216	523	205	471	185
535	Ash Gray-VY LT	780	307	742	292	668	262
561	Jade-VY DK	363	142	346	136	311	122
610	Drab Brown-DK	1276	502	1215	478	1094	430
611	Drab Brown	842	331	802	315	721	283
612	Drab Brown-LT	196	77	187	73	168	66
632	Desert Sand-UL VY DK	1202	473	1145	450	1031	405
644	Beige Gray-MD	172	67	164	64	147	57
645	Beaver Gray-VY DK	546	214	520	204	468	184
646	Beaver Gray-DK	133	52	126	49	114	44
680	Old Gold-DK	158	62	151	59	136	53
722	Orange Spice-LT	57	22	54	21	49	19
725	Topaz	59	23	56	22	50	19
726	Topaz-LT	75	29	71	27	64	25
733	Olive Green-MD	230	90	219	86	197	77
734	Olive Green-LT	212	83	202	79	182	71
739	Tan-UL VY LT	108	42	103	40	92	36
744	Yellow-Pale	42	16	40	15	36	14
746	Off White	142	55	135	53	121	47
754	Peach-LT	305	120	291	114	262	103
758	Terra Cotta-VY LT	200	78	190	74	171	67
762	Pearl Gray-VY LT	23	9	22	8	20	7
783	Topaz-MD	163	64	155	61	140	55
828	Blue-UL VY LT	54	21	52	20	46	18
830	Golden Olive-DK	404	159	385	151	346	136
831	Golden Olive-MD	856	337	815	320	733	288
832	Golden Olive	484	190	461	181	414	162
833	Golden Olive-LT	80	31	76	29	69	27
834	Golden Olive-VY LT	32	12	31	12	27	10
838	Beige Brown-VY DK	626	246	596	234	536	211
839	Beige Brown-DK	1791	705	1705	671	1535	604
844	Beaver Brown-UL DK	1403	552	1336	525	1203	473

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869	Hazelnut Brown-VY DK	133	52	126	49	114	44
924	Gray Green--VY DK	1865	734	1776	699	1598	629
926	Gray Green-MD	26	10	24	9	22	8
927	Gray Green-LT	133	52	127	50	114	44
932	Antique Blue-LT	33	12	31	12	28	11
934	Black Avocado Green	3229	1271	3075	1210	2767	1089
935	Avocado Green-DK	867	341	826	325	743	292
948	Peach-VY LT	163	64	156	61	140	55
950	Desert Sand-LT	66	25	63	24	57	22
977	Golden Brown-LT	43	16	41	16	37	14
3011	Khaki Green-DK	1339	527	1275	501	1148	451
3012	Khaki Green-MD	581	228	553	217	498	196
3013	Khaki Green-LT	203	79	193	75	174	68
3021	Brown Gray-VY DK	5005	1970	4766	1876	4290	1688
3031	Mocha Brown-VY DK	2031	799	1934	761	1741	685
3041	Antique Violet-MD	21	8	20	7	18	7
3045	Yellow Beige-DK	460	181	438	172	394	155
3046	Yellow Beige-MD	520	204	495	194	445	175
3051	Green Gray-DK	959	377	913	359	822	323
3052	Green Gray-MD	127	50	121	47	109	42
3072	Beaver Gray-VY LT	55	21	52	20	47	18
3078	Golden Yellow-VY LT	159	62	151	59	136	53
3347	Yellow Green-MD	50	19	48	18	43	16
3348	Yellow Green-LT	235	92	224	88	201	79
3362	Pine Green-DK	1622	638	1544	607	1390	547
3363	Pine Green-MD	624	245	595	234	535	210
3371	Black Brown	1275	501	1215	478	1093	430
3756	Baby Blue-UL VY LT	34	13	33	12	29	11
3768	Gray Green-DK	193	75	184	72	165	64
3770	Tawny-VY LT	142	55	136	53	122	48
3772	Desert Sand-VY DK	159	62	151	59	136	53
3776	Mahogany-LT	517	203	492	193	443	174
3779	Terra Cotta-UL VY LT	75	29	72	28	64	25
3781	Mocha Brown-DK	2029	798	1933	761	1739	684
3787	Brown Gray-DK	964	379	918	361	826	325
3799	Pewter Gray-VY DK	3011	1185	2868	1129	2581	1016
3809	Turquoise-VY DK	6	2	6	2	5	1
3813	Blue Green-LT	202	79	192	75	173	68
3814	Aquamarine	76	29	73	28	65	25
3816	Celadon Green-MD	269	105	257	101	231	90
3820	Straw-DK	75	29	71	27	64	25
3822	Straw-LT	104	40	99	38	89	35
3823	Yellow-UL Pale	123	48	117	46	105	41
3825	Pumpkin-Pale	108	42	103	40	93	36
3826	Golden Brown	325	127	310	122	279	109
3828	Hazelnut Brown	207	81	197	77	177	69
3829	Old Gold-VY DK	287	112	273	107	246	96
3830	Terra Cotta-MD	8	3	7	2	7	2
3847	Teal Green-DK	639	251	608	239	547	215
3848	Teal Green-MD	12	4	12	4	11	4
3855	Autumn Gold-LT	98	38	93	36	84	33
3856	Mahogany-UL VY LT	127	50	121	47	109	42
3861	Cocoa-LT	49	19	47	18	42	16
3862	Mocha Beige-DK	481	189	458	180	412	162
3863	Mocha Beige-MD	140	55	134	52	120	47
3864	Mocha Beige-LT	152	59	145	57	131	51
3865	Winter White	201	79	191	75	172	67
Ecru	Ecru	58	22	55	21	50	19



Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
307	Lemon	36	13	30	11	15	5
310	Black	5756	2266	4797	1889	2399	944
352	Coral-LT	148	58	123	48	62	24
353	Peach	234	92	195	77	98	38
356	Terra Cotta-MD	175	68	146	57	73	29
367	Pistachio Green-DK	918	360	765	300	383	150
371	Mustard	1116	439	930	366	465	183
402	Mahogany-VY LT	686	270	572	225	286	113
407	Desert Sand-DK	113	43	95	36	47	18
414	Steel Gray-DK	76	29	63	24	32	12
415	Pearl Gray	371	146	309	122	155	61
420	Hazelnut Brown-DK	790	310	659	258	329	129
434	Brown-LT	499	196	416	164	208	82
435	Brown-VY LT	425	166	354	138	177	69
436	Tan	331	130	276	108	138	54
444	Lemon-DK	76	29	63	24	32	12
452	Shell Gray-MD	50	20	42	17	21	8
472	Avocado Green-UL LT	97	38	81	32	41	16
500	Blue Green-VY DK	2275	895	1896	746	948	373
501	Blue Green-DK	2243	882	1869	735	935	368
520	Fern Green-DK	1476	580	1230	483	615	242
522	Fern Green	1566	616	1305	513	653	257
523	Fern Green-LT	848	333	707	278	353	139
535	Ash Gray-VY LT	1202	472	1002	393	501	197
561	Jade-VY DK	560	220	467	183	233	92
610	Drab Brown-DK	1969	774	1641	645	821	323
611	Drab Brown	1298	509	1082	425	541	212
612	Drab Brown-LT	302	119	252	99	126	50
632	Desert Sand-UL VY DK	1856	729	1547	608	773	304
644	Beige Gray-MD	265	103	221	86	110	43
645	Beaver Gray-VY DK	842	331	702	276	351	138
646	Beaver Gray-DK	205	79	171	66	86	33
680	Old Gold-DK	245	95	204	80	102	40
722	Orange Spice-LT	88	34	74	29	37	14
725	Topaz	90	34	75	29	38	14
726	Topaz-LT	115	45	96	38	48	19
733	Olive Green-MD	355	139	296	116	148	58
734	Olive Green-LT	328	128	273	107	137	53
739	Tan-UL VY LT	166	65	138	54	69	27
744	Yellow-Pale	65	25	54	21	27	11
746	Off White	218	85	182	71	91	35
754	Peach-LT	472	185	393	155	197	77
758	Terra Cotta-VY LT	308	121	257	101	128	50
762	Pearl Gray-VY LT	36	13	30	11	15	5
783	Topaz-MD	252	99	210	83	105	41
828	Blue-UL VY LT	83	32	69	27	35	14
830	Golden Olive-DK	623	245	519	204	260	102
831	Golden Olive-MD	1319	518	1100	432	550	216
832	Golden Olive	745	292	621	243	311	122
833	Golden Olive-LT	124	49	104	41	52	20
834	Golden Olive-VY LT	49	18	41	15	20	8
838	Beige Brown-VY DK	965	380	804	317	402	158
839	Beige Brown-DK	2763	1087	2303	906	1151	453

844	Beaver Brown-UL DK	2165	851	1805	710	902	355
869	Hazelnut Brown-VY DK	205	79	171	66	86	33
924	Gray Green--VY DK	2876	1132	2397	944	1199	472
926	Gray Green-MD	40	14	33	12	17	6
927	Gray Green-LT	205	79	171	66	86	33
932	Antique Blue-LT	50	20	42	17	21	8
934	Black Avocado Green	4981	1960	4151	1634	2075	817
935	Avocado Green-DK	1337	526	1115	438	557	219
948	Peach-VY LT	252	99	210	83	105	41
950	Desert Sand-LT	103	40	86	33	43	17
977	Golden Brown-LT	67	25	56	21	28	11
3011	Khaki Green-DK	2066	812	1722	677	861	338
3012	Khaki Green-MD	896	353	747	294	374	147
3013	Khaki Green-LT	313	122	261	102	131	51
3021	Brown Gray-VY DK	7722	3038	6435	2532	3218	1266
3031	Mocha Brown-VY DK	3134	1233	2612	1028	1306	514
3041	Antique Violet-MD	32	13	27	11	14	5
3045	Yellow Beige-DK	709	279	591	233	296	116
3046	Yellow Beige-MD	801	315	668	263	334	131
3051	Green Gray-DK	1480	581	1233	485	617	242
3052	Green Gray-MD	196	76	164	63	82	32
3072	Beaver Gray-VY LT	85	32	71	27	35	14
3078	Golden Yellow-VY LT	245	95	204	80	102	40
3347	Yellow Green-MD	77	29	65	24	32	12
3348	Yellow Green-LT	362	142	302	119	151	59
3362	Pine Green-DK	2502	985	2085	821	1043	410
3363	Pine Green-MD	963	378	803	315	401	158
3371	Black Brown	1967	774	1640	645	820	323
3756	Baby Blue-UL VY LT	52	20	44	17	22	8
3768	Gray Green-DK	297	115	248	96	124	48
3770	Tawny-VY LT	220	86	183	72	92	36
3772	Desert Sand-VY DK	245	95	204	80	102	40
3776	Mahogany-LT	797	313	665	261	332	131
3779	Terra Cotta-UL VY LT	115	45	96	38	48	19
3781	Mocha Brown-DK	3130	1231	2609	1026	1304	513
3787	Brown Gray-DK	1487	585	1239	488	620	244
3799	Pewter Gray-VY DK	4646	1829	3872	1524	1936	762
3809	Turquoise-VY DK	9	2	8	2	4	1
3813	Blue Green-LT	311	122	260	102	130	51
3814	Aquamarine	117	45	98	38	49	19
3816	Celadon Green-MD	416	162	347	135	173	68
3820	Straw-DK	115	45	96	38	48	19
3822	Straw-LT	160	63	134	53	67	26
3823	Yellow-UL Pale	189	74	158	62	79	31
3825	Pumpkin-Pale	167	65	140	54	70	27
3826	Golden Brown	502	196	419	164	209	82
3828	Hazelnut Brown	319	124	266	104	133	52
3829	Old Gold-VY DK	443	173	369	144	185	72
3830	Terra Cotta-MD	13	4	11	3	5	2
3847	Teal Green-DK	985	387	821	323	410	161
3848	Teal Green-MD	20	7	17	6	8	3
3855	Autumn Gold-LT	151	59	126	50	63	25
3856	Mahogany-UL VY LT	196	76	164	63	82	32
3861	Cocoa-LT	76	29	63	24	32	12
3862	Mocha Beige-DK	742	292	618	243	309	122
3863	Mocha Beige-MD	216	85	180	71	90	35
3864	Mocha Beige-LT	236	92	197	77	98	38
3865	Winter White	310	121	258	101	129	50
Ecru	Ecru	90	34	75	29	38	14

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Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
307	Lemon	14	5	14	5	13	5
310	Black	2303	906	2214	872	2132	839
352	Coral-LT	59	23	57	22	55	21
353	Peach	94	37	90	35	87	34
356	Terra Cotta-MD	70	27	67	26	65	25
367	Pistachio Green-DK	367	144	353	138	340	133
371	Mustard	446	176	429	169	413	163
402	Mahogany-VY LT	274	108	264	104	254	100
407	Desert Sand-DK	45	17	44	17	42	16
414	Steel Gray-DK	30	12	29	11	28	11
415	Pearl Gray	148	58	143	56	137	54
420	Hazelnut Brown-DK	316	124	304	119	293	115
434	Brown-LT	199	78	192	75	185	73
435	Brown-VY LT	170	66	163	64	157	61
436	Tan	132	52	127	50	123	48
444	Lemon-DK	30	12	29	11	28	11
452	Shell Gray-MD	20	8	19	8	19	7
472	Avocado Green-UL LT	39	15	37	15	36	14
500	Blue Green-VY DK	910	358	875	344	843	331
501	Blue Green-DK	897	353	863	339	831	327
520	Fern Green-DK	590	232	568	223	547	215
522	Fern Green	626	246	602	237	580	228
523	Fern Green-LT	339	133	326	128	314	123
535	Ash Gray-VY LT	481	189	462	181	445	175
561	Jade-VY DK	224	88	215	84	207	81
610	Drab Brown-DK	788	310	757	298	729	287
611	Drab Brown	519	204	499	196	481	189
612	Drab Brown-LT	121	48	116	46	112	44
632	Desert Sand-UL VY DK	742	292	714	280	687	270
644	Beige Gray-MD	106	41	102	39	98	38
645	Beaver Gray-VY DK	337	132	324	127	312	123
646	Beaver Gray-DK	82	32	79	30	76	29
680	Old Gold-DK	98	38	94	37	91	35
722	Orange Spice-LT	35	14	34	13	33	13
725	Topaz	36	14	35	13	33	13
726	Topaz-LT	46	18	44	17	43	17
733	Olive Green-MD	142	55	136	53	131	51
734	Olive Green-LT	131	51	126	49	121	47
739	Tan-UL VY LT	66	26	64	25	61	24
744	Yellow-Pale	26	10	25	10	24	9
746	Off White	87	34	84	33	81	31
754	Peach-LT	189	74	181	71	175	69
758	Terra Cotta-VY LT	123	48	118	46	114	45
762	Pearl Gray-VY LT	14	5	14	5	13	5
783	Topaz-MD	101	40	97	38	93	37
828	Blue-UL VY LT	33	13	32	12	31	12
830	Golden Olive-DK	249	98	240	94	231	91
831	Golden Olive-MD	528	207	507	199	489	192
832	Golden Olive	298	117	287	112	276	108
833	Golden Olive-LT	50	19	48	19	46	18
834	Golden Olive-VY LT	19	7	19	7	18	7
838	Beige Brown-VY DK	386	152	371	146	357	141
839	Beige Brown-DK	1105	435	1063	418	1023	403
844	Beaver Brown-UL DK	866	341	833	327	802	315

869	Hazelnut Brown-VY DK	82	32	79	30	76	29
924	Gray Green--VY DK	1151	453	1106	435	1065	419
926	Gray Green-MD	16	6	15	6	15	5
927	Gray Green-LT	82	32	79	30	76	29
932	Antique Blue-LT	20	8	19	8	19	7
934	Black Avocado Green	1992	784	1916	754	1845	726
935	Avocado Green-DK	535	210	514	202	495	195
948	Peach-VY LT	101	40	97	38	93	37
950	Desert Sand-LT	41	16	39	15	38	15
977	Golden Brown-LT	27	10	26	10	25	9
3011	Khaki Green-DK	827	325	795	312	765	301
3012	Khaki Green-MD	359	141	345	136	332	131
3013	Khaki Green-LT	125	49	120	47	116	45
3021	Brown Gray-VY DK	3089	1215	2970	1169	2860	1125
3031	Mocha Brown-VY DK	1254	493	1205	474	1161	457
3041	Antique Violet-MD	13	5	12	5	12	5
3045	Yellow Beige-DK	284	112	273	107	263	103
3046	Yellow Beige-MD	320	126	308	121	297	117
3051	Green Gray-DK	592	233	569	224	548	215
3052	Green Gray-MD	78	30	75	29	73	28
3072	Beaver Gray-VY LT	34	13	33	12	31	12
3078	Golden Yellow-VY LT	98	38	94	37	91	35
3347	Yellow Green-MD	31	12	30	11	29	11
3348	Yellow Green-LT	145	57	139	55	134	53
3362	Pine Green-DK	1001	394	962	379	927	365
3363	Pine Green-MD	385	151	370	145	357	140
3371	Black Brown	787	310	757	298	729	287
3756	Baby Blue-UL VY LT	21	8	20	8	19	7
3768	Gray Green-DK	119	46	114	44	110	43
3770	Tawny-VY LT	88	35	84	33	81	32
3772	Desert Sand-VY DK	98	38	94	37	91	35
3776	Mahogany-LT	319	125	307	120	295	116
3779	Terra Cotta-UL VY LT	46	18	44	17	43	17
3781	Mocha Brown-DK	1252	492	1204	474	1159	456
3787	Brown Gray-DK	595	234	572	225	551	217
3799	Pewter Gray-VY DK	1858	732	1787	703	1721	677
3809	Turquoise-VY DK	4	1	3	1	3	1
3813	Blue Green-LT	125	49	120	47	115	45
3814	Aquamarine	47	18	45	17	43	17
3816	Celadon Green-MD	166	65	160	62	154	60
3820	Straw-DK	46	18	44	17	43	17
3822	Straw-LT	64	25	62	24	59	23
3823	Yellow-UL Pale	76	30	73	28	70	27
3825	Pumpkin-Pale	67	26	64	25	62	24
3826	Golden Brown	201	78	193	75	186	73
3828	Hazelnut Brown	127	50	123	48	118	46
3829	Old Gold-VY DK	177	69	170	66	164	64
3830	Terra Cotta-MD	5	1	5	1	5	1
3847	Teal Green-DK	394	155	379	149	365	143
3848	Teal Green-MD	8	3	8	3	7	3
3855	Autumn Gold-LT	60	24	58	23	56	22
3856	Mahogany-UL VY LT	78	30	75	29	73	28
3861	Cocoa-LT	30	12	29	11	28	11
3862	Mocha Beige-DK	297	117	285	112	275	108
3863	Mocha Beige-MD	86	34	83	33	80	31
3864	Mocha Beige-LT	94	37	91	35	87	34
3865	Winter White	124	48	119	46	115	45
Ecru	Ecru	36	14	35	13	33	13

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
307	Lemon	13	5	12	4	11	4
310	Black	2056	809	1919	755	1799	708
352	Coral-LT	53	21	49	19	46	18
353	Peach	84	33	78	31	73	29
356	Terra Cotta-MD	62	24	58	23	55	21
367	Pistachio Green-DK	328	129	306	120	287	113
371	Mustard	399	157	372	146	349	137
402	Mahogany-VY LT	245	96	229	90	214	84
407	Desert Sand-DK	41	15	38	14	35	14
414	Steel Gray-DK	27	10	25	10	24	9
415	Pearl Gray	132	52	124	49	116	46
420	Hazelnut Brown-DK	282	111	263	103	247	97
434	Brown-LT	178	70	166	65	156	61
435	Brown-VY LT	152	59	142	55	133	52
436	Tan	118	46	110	43	104	41
444	Lemon-DK	27	10	25	10	24	9
452	Shell Gray-MD	18	7	17	7	16	6
472	Avocado Green-UL LT	35	14	32	13	30	12
500	Blue Green-VY DK	813	320	758	298	711	280
501	Blue Green-DK	801	315	748	294	701	276
520	Fern Green-DK	527	207	492	193	461	181
522	Fern Green	559	220	522	205	489	192
523	Fern Green-LT	303	119	283	111	265	104
535	Ash Gray-VY LT	429	168	401	157	376	147
561	Jade-VY DK	200	78	187	73	175	69
610	Drab Brown-DK	703	276	656	258	615	242
611	Drab Brown	464	182	433	170	406	159
612	Drab Brown-LT	108	42	101	40	95	37
632	Desert Sand-UL VY DK	663	260	619	243	580	228
644	Beige Gray-MD	95	37	88	34	83	32
645	Beaver Gray-VY DK	301	118	281	110	263	104
646	Beaver Gray-DK	73	28	68	26	64	25
680	Old Gold-DK	87	34	82	32	77	30
722	Orange Spice-LT	32	12	29	11	28	11
725	Topaz	32	12	30	11	28	11
726	Topaz-LT	41	16	38	15	36	14
733	Olive Green-MD	127	50	118	46	111	43
734	Olive Green-LT	117	46	109	43	102	40
739	Tan-UL VY LT	59	23	55	22	52	20
744	Yellow-Pale	23	9	22	8	20	8
746	Off White	78	30	73	28	68	26
754	Peach-LT	168	66	157	62	147	58
758	Terra Cotta-VY LT	110	43	103	40	96	38
762	Pearl Gray-VY LT	13	5	12	4	11	4
783	Topaz-MD	90	35	84	33	79	31
828	Blue-UL VY LT	30	12	28	11	26	10
830	Golden Olive-DK	222	87	208	82	195	77
831	Golden Olive-MD	471	185	440	173	412	162
832	Golden Olive	266	104	248	97	233	91
833	Golden Olive-LT	44	17	41	16	39	15
834	Golden Olive-VY LT	17	6	16	6	15	6
838	Beige Brown-VY DK	345	136	322	127	302	119
839	Beige Brown-DK	987	388	921	362	863	340
844	Beaver Brown-UL DK	773	304	722	284	677	266

869	Hazelnut Brown-VY DK	73	28	68	26	64	25
924	Gray Green--VY DK	1027	404	959	377	899	354
926	Gray Green-MD	14	5	13	5	12	5
927	Gray Green-LT	73	28	68	26	64	25
932	Antique Blue-LT	18	7	17	7	16	6
934	Black Avocado Green	1779	700	1660	653	1556	613
935	Avocado Green-DK	478	188	446	175	418	164
948	Peach-VY LT	90	35	84	33	79	31
950	Desert Sand-LT	37	14	34	13	32	12
977	Golden Brown-LT	24	9	22	8	21	8
3011	Khaki Green-DK	738	290	689	271	646	254
3012	Khaki Green-MD	320	126	299	118	280	110
3013	Khaki Green-LT	112	44	104	41	98	38
3021	Brown Gray-VY DK	2758	1085	2574	1013	2413	950
3031	Mocha Brown-VY DK	1119	440	1045	411	979	385
3041	Antique Violet-MD	12	5	11	4	10	4
3045	Yellow Beige-DK	253	100	236	93	222	87
3046	Yellow Beige-MD	286	113	267	105	250	98
3051	Green Gray-DK	528	208	493	194	462	182
3052	Green Gray-MD	70	27	65	25	61	24
3072	Beaver Gray-VY LT	30	12	28	11	26	10
3078	Golden Yellow-VY LT	87	34	82	32	77	30
3347	Yellow Green-MD	28	10	26	10	24	9
3348	Yellow Green-LT	129	51	121	47	113	44
3362	Pine Green-DK	894	352	834	328	782	308
3363	Pine Green-MD	344	135	321	126	301	118
3371	Black Brown	703	276	656	258	615	242
3756	Baby Blue-UL VY LT	19	7	17	7	16	6
3768	Gray Green-DK	106	41	99	38	93	36
3770	Tawny-VY LT	78	31	73	29	69	27
3772	Desert Sand-VY DK	87	34	82	32	77	30
3776	Mahogany-LT	285	112	266	104	249	98
3779	Terra Cotta-UL VY LT	41	16	38	15	36	14
3781	Mocha Brown-DK	1118	440	1043	410	978	385
3787	Brown Gray-DK	531	209	496	195	465	183
3799	Pewter Gray-VY DK	1659	653	1549	610	1452	572
3809	Turquoise-VY DK	3	1	3	1	3	1
3813	Blue Green-LT	111	44	104	41	97	38
3814	Aquamarine	42	16	39	15	37	14
3816	Celadon Green-MD	149	58	139	54	130	51
3820	Straw-DK	41	16	38	15	36	14
3822	Straw-LT	57	23	53	21	50	20
3823	Yellow-UL Pale	68	26	63	25	59	23
3825	Pumpkin-Pale	60	23	56	22	52	20
3826	Golden Brown	179	70	167	65	157	61
3828	Hazelnut Brown	114	44	106	41	100	39
3829	Old Gold-VY DK	158	62	148	58	138	54
3830	Terra Cotta-MD	5	1	4	1	4	1
3847	Teal Green-DK	352	138	328	129	308	121
3848	Teal Green-MD	7	3	7	2	6	2
3855	Autumn Gold-LT	54	21	50	20	47	19
3856	Mahogany-UL VY LT	70	27	65	25	61	24
3861	Cocoa-LT	27	10	25	10	24	9
3862	Mocha Beige-DK	265	104	247	97	232	91
3863	Mocha Beige-MD	77	30	72	28	68	26
3864	Mocha Beige-LT	84	33	79	31	74	29
3865	Winter White	111	43	103	40	97	38
Ecru	Ecru	32	12	30	11	28	11



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20	+	+	+	+	+	+
30	+	+	+	+	+	+
40	+	+	+	+	+	+
50	+	+	+	+	+	+
60	+	+	+	+	+	+
70	+	+	+	+	+	+
80	+	+	+	+	+	+

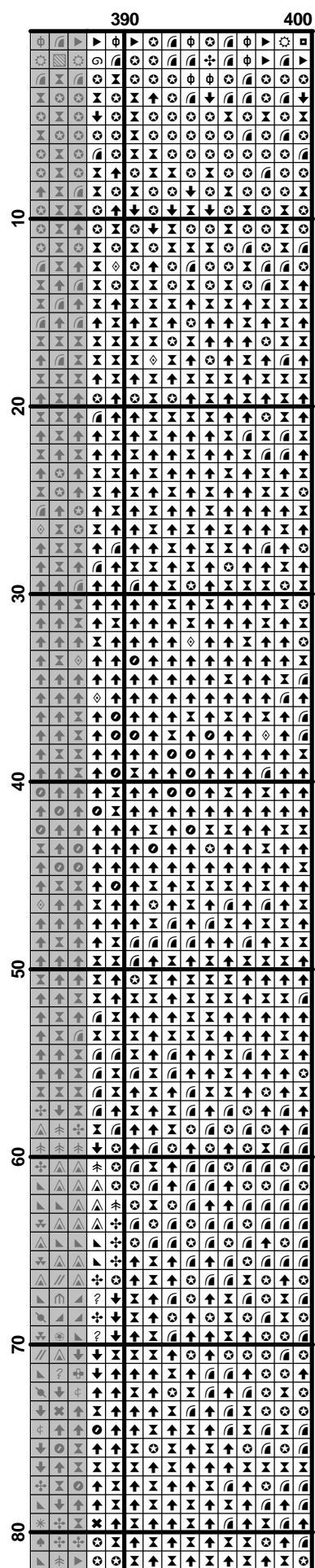
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	110	120	130	140	150	160
80	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
90	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
100	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
110	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
120	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
130	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
140	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
150	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
160	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *

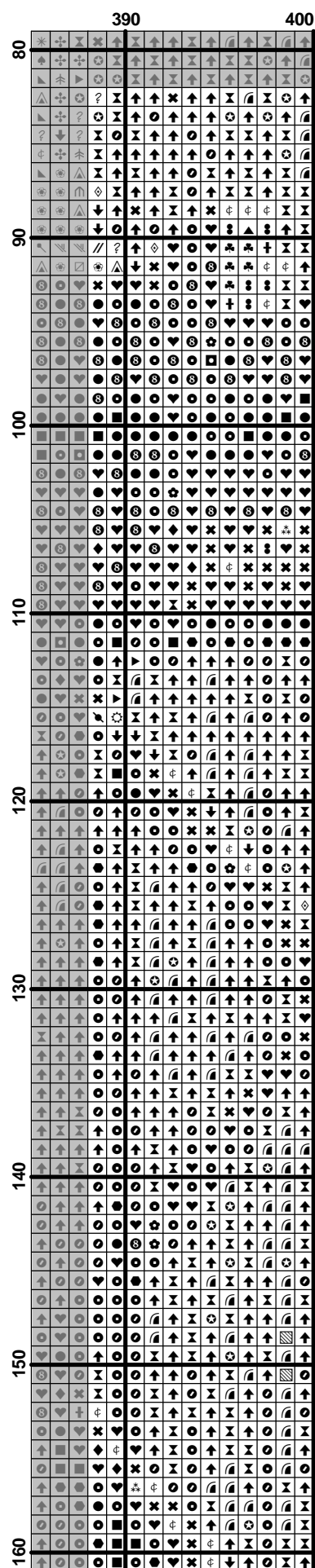




	220	230	240	250	260	270
80						
90						
100						
110						
120						
130						
140						
150						
160						

	280	290	300	310	320	330
80	...	...	...	...	...	...
90	...	...	...	...	...	...
100	...	...	...	...	...	...
110	...	...	...	...	...	...
120	...	...	...	...	...	...
130	...	...	...	...	...	...
140	...	...	...	...	...	...
150	...	...	...	...	...	...
160	...	...	...	...	...	...





	10										20										30										40										50									
160																																																		
170																																																		
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220																																																		
230																																																		
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[illegible]



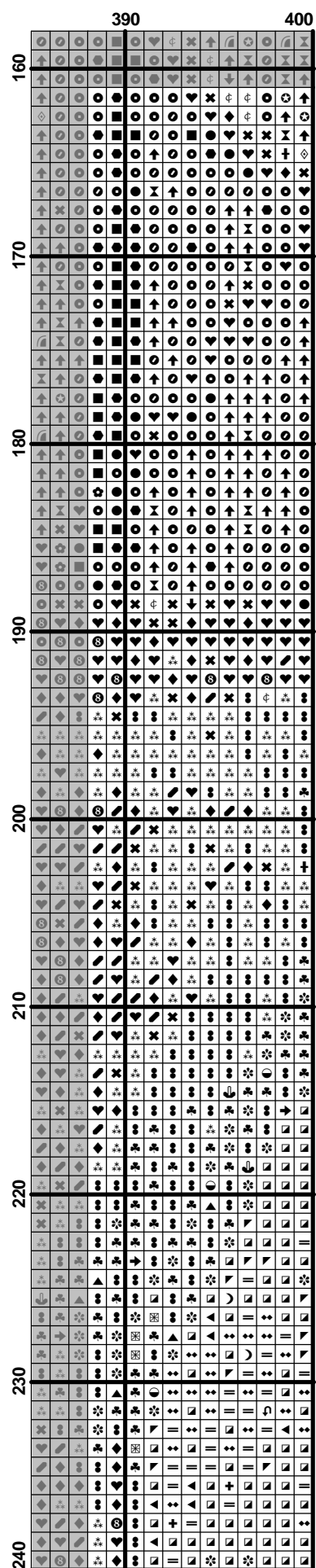
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190	...	...	...	...	...	...
200	...	...	...	...	...	...
210	...	...	...	...	...	...
220	...	...	...	...	...	...
230	...	...	...	...	...	...
240	...	...	...	...	...	...

[illegible]

	220	230	240	250	260	270
160						
170						
180						
190						
200						
210						
220						
230						
240						

	280	290	300	310	320	330
160	...	...	...	...	...	...
170	...	...	...	...	...	...
180	...	...	...	...	...	...
190	...	...	...	...	...	...
200	...	...	...	...	...	...
210	...	...	...	...	...	...
220	...	...	...	...	...	...
230	...	...	...	...	...	...
240	...	...	...	...	...	...

[illegible]



	10										20										30										40										50									
240																																																		
250																																																		
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280																																																		
290																																																		
300																																																		
310																																																		

	60	70	80	90	100	110
240	...	...	...	...	...	...
250	...	...	...	...	...	...
260	...	...	...	...	...	...
270	...	...	...	...	...	...
280	...	...	...	...	...	...
290	...	...	...	...	...	...
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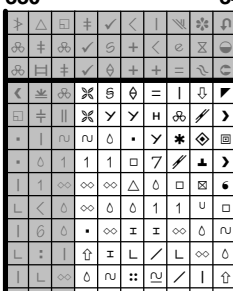
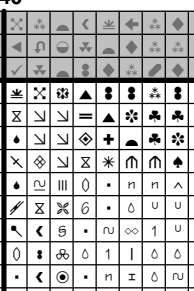
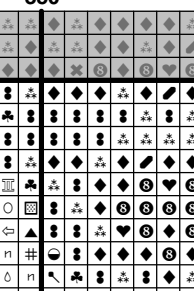
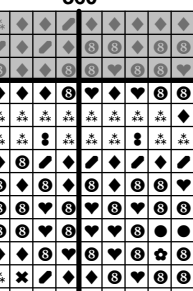
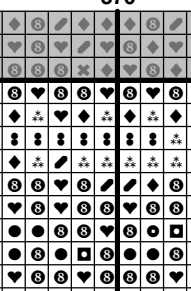
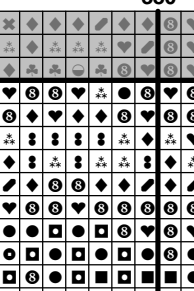
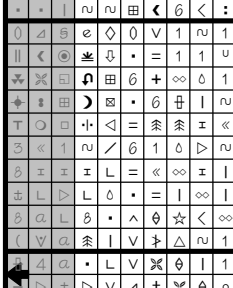
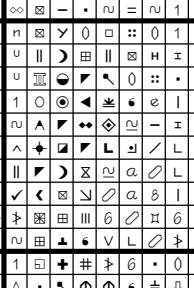
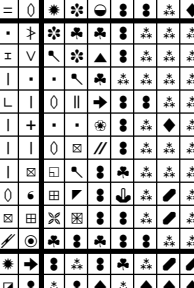
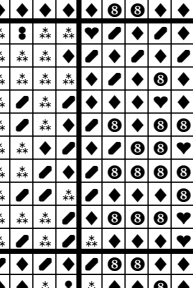
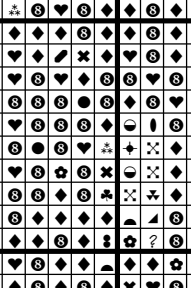
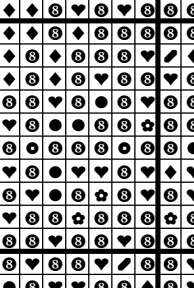
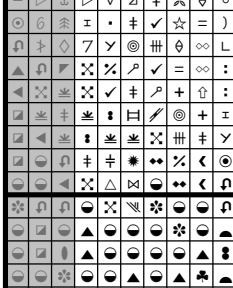
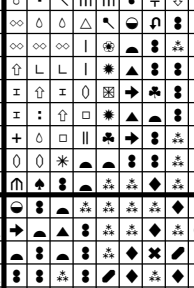
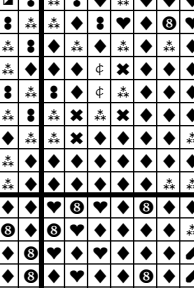
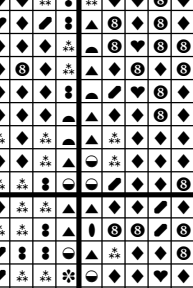
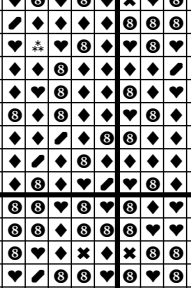
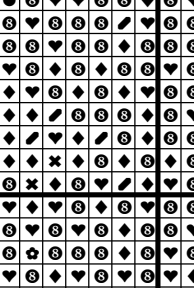
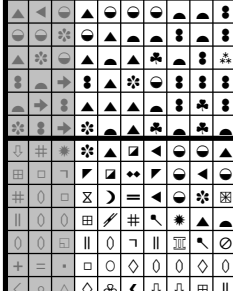
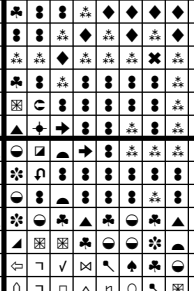
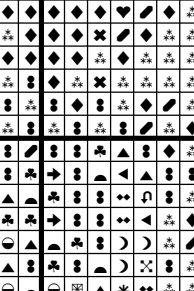
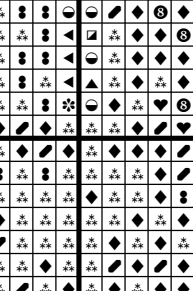
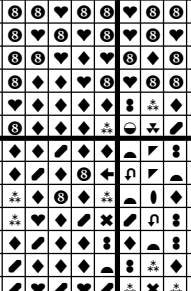
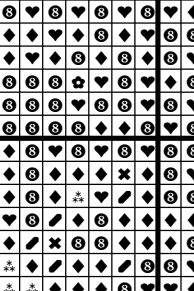
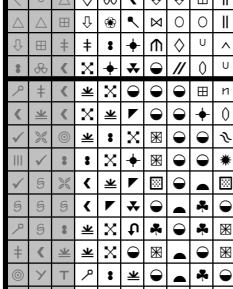
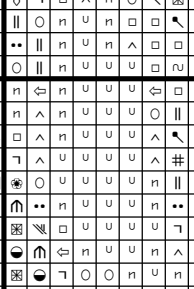
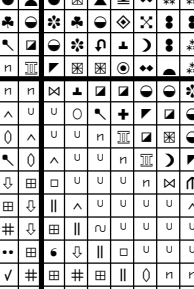
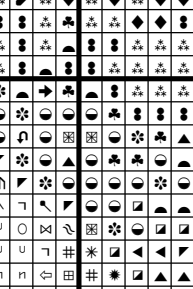
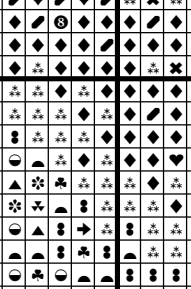
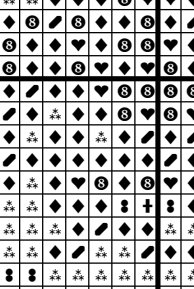
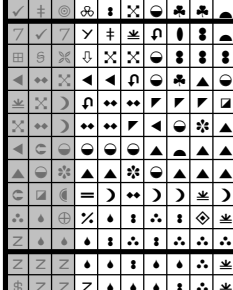
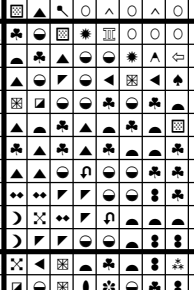
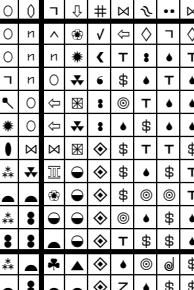
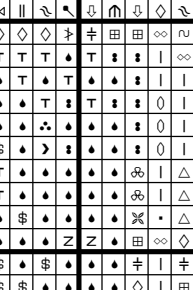
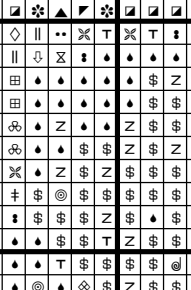
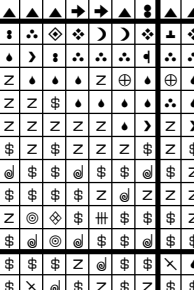
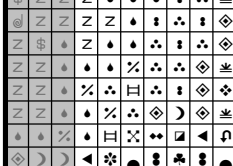
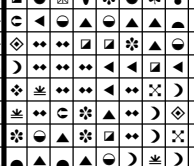
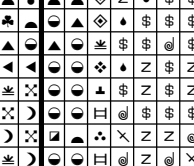
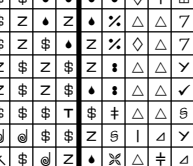
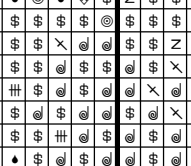
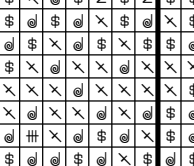








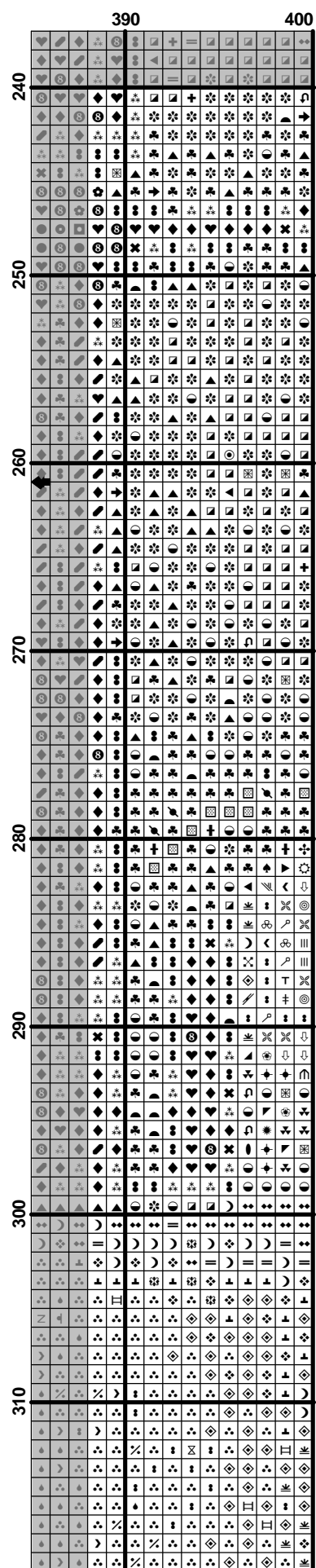
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240	...	...	...	...	...	...
250	...	...	...	...	...	...
260	...	...	...	...	...	...
270	...	...	...	...	...	...
280	...	...	...	...	...	...
290	...	...	...	...	...	...
300	...	...	...	...	...	...
310	...	...	...	...	...	...

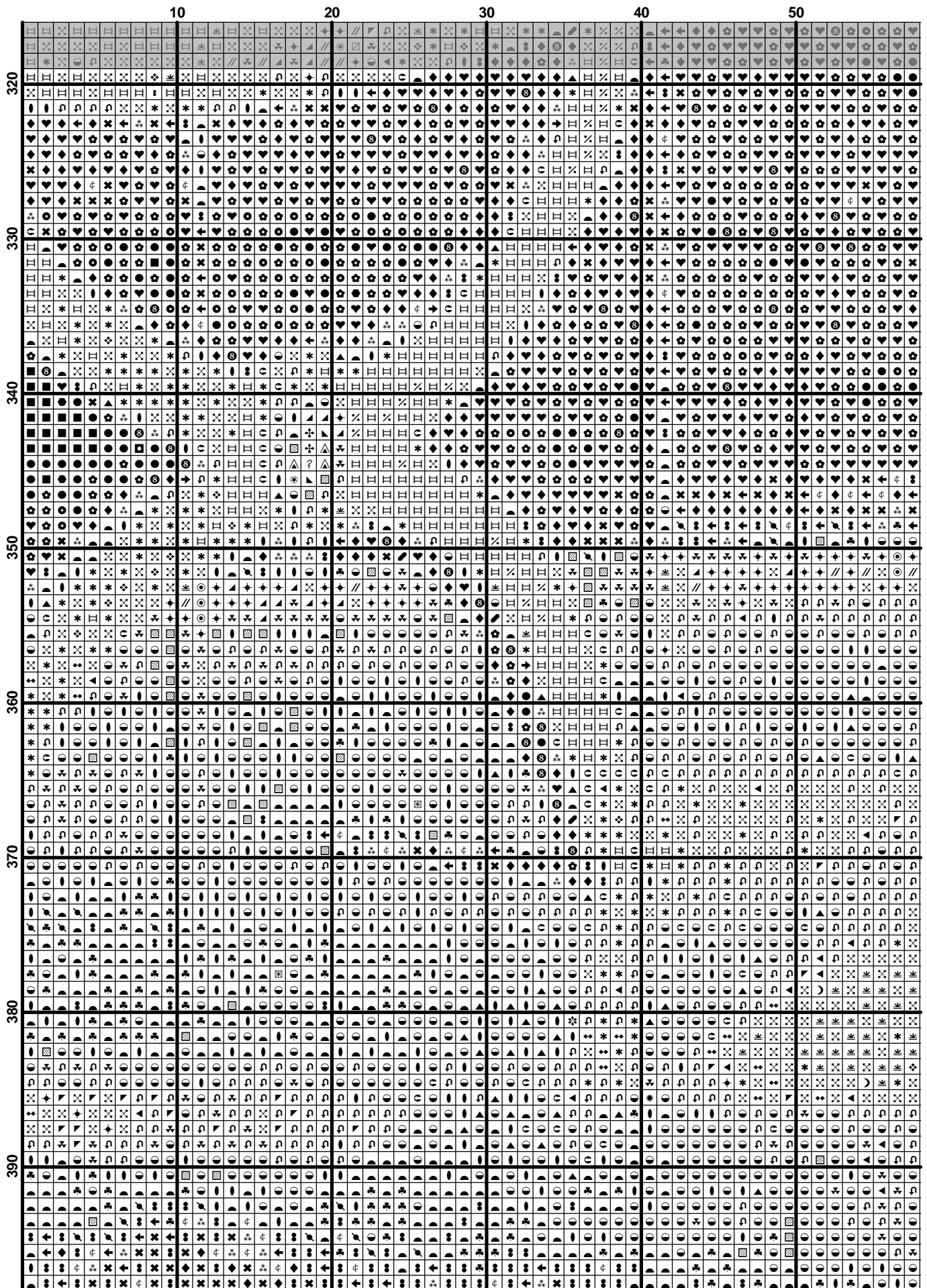
	170	180	190	200	210	220
240	+	+	+	+	+	+
250	+	+	+	+	+	+
260	+	+	+	+	+	+
270	+	+	+	+	+	+
280	+	+	+	+	+	+
290	+	+	+	+	+	+
300	+	+	+	+	+	+
310	+	+	+	+	+	+

	220	230	240	250	260	270
240						
250						
260						
270						
280						
290						
300						
310						

$$(38) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	330	340	350	360	370	380
240						
250						
260						
270						
280						
290						
300						
310						





	60	70	80	90	100	110
320	...	...	...	...	...	...
330	...	...	...	...	...	...
340	...	...	...	...	...	...
350	...	...	...	...	...	...
360	...	...	...	...	...	...
370	...	...	...	...	...	...
380	...	...	...	...	...	...
390	...	...	...	...	...	...



	110	120	130	140	150	160
320	...	...	...	...	...	...
330	...	...	...	...	...	...
340	...	...	...	...	...	...
350	...	...	...	...	...	...
360	...	...	...	...	...	...
370	...	...	...	...	...	...
380	...	...	...	...	...	...
390	...	...	...	...	...	...

	170	180	190	200	210	220
320						
330						
340						
350						
360						
370						
380						
390						

	220	230	240	250	260	270
320						
330						
340						
350						
360						
370						
380						
390						



	330	340	350	360	370	380
320						
330						
340						
350						
360						
370						
380						
390						

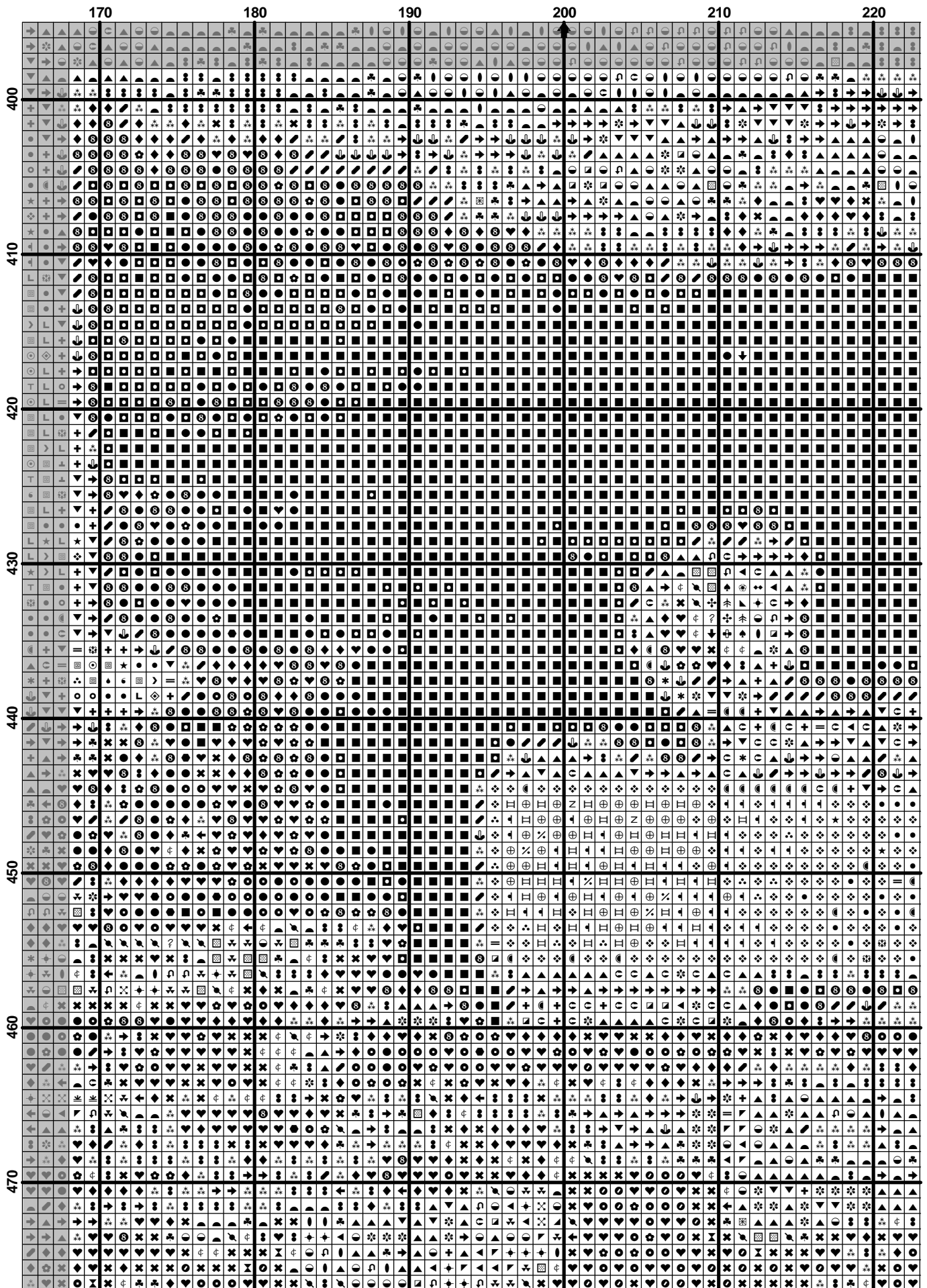
(48)

[illegible]

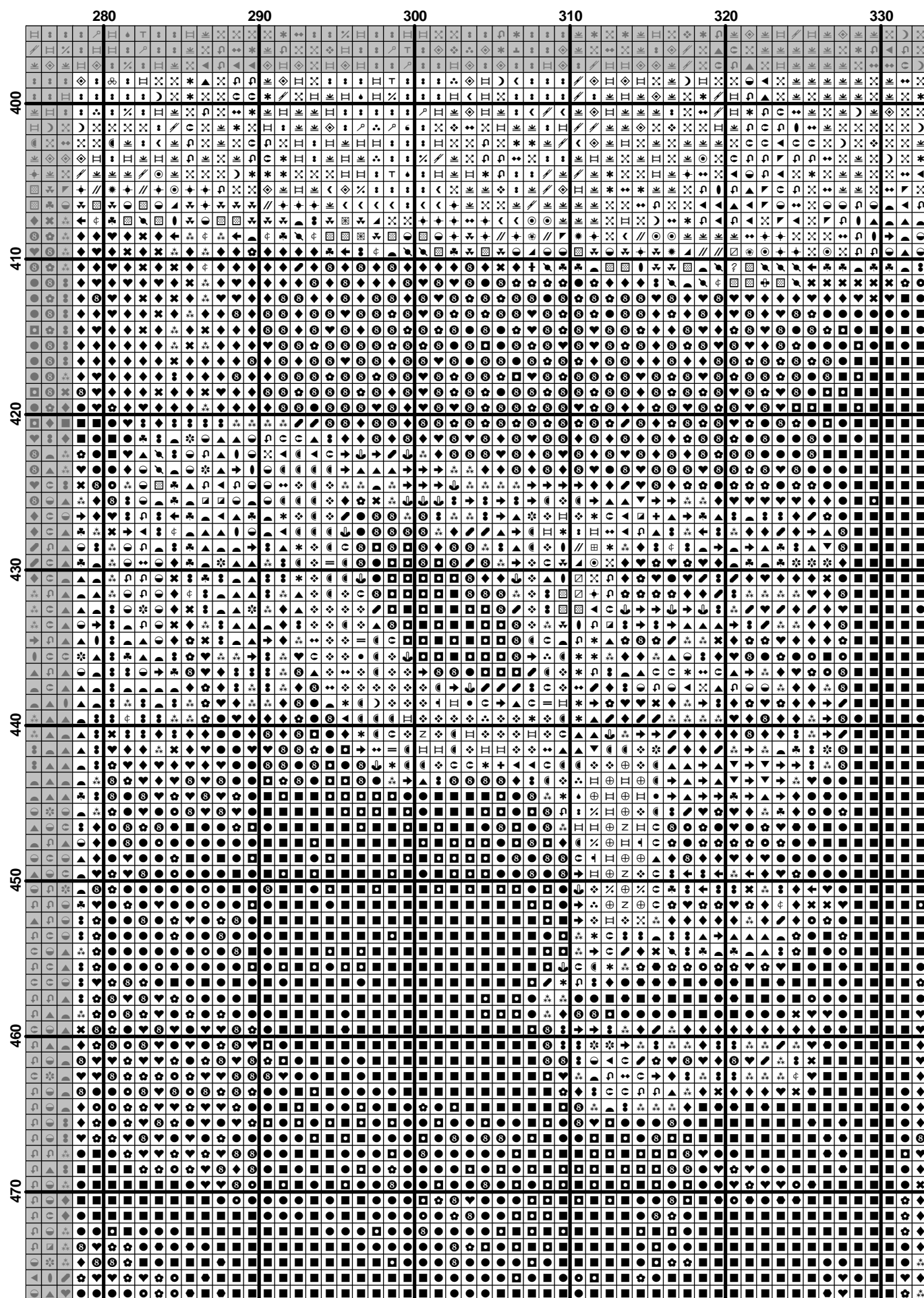
	60	70	80	90	100	110
400	...	...	...	...	...	...
410	...	...	...	...	...	...
420	...	...	...	...	...	...
430	...	...	...	...	...	...
440	...	...	...	...	...	...
450	...	...	...	...	...	...
460	...	...	...	...	...	...
470	...	...	...	...	...	...



	110	120	130	140	150	160
400						
410						
420						
430						
440						
450						
460						
470						







	330	340	350	360	370	380
400	...	...	...	...	...	...
410	...	...	...	...	...	...
420	...	...	...	...	...	...
430	...	...	...	...	...	...
440	...	...	...	...	...	...
450	...	...	...	...	...	...
460	...	...	...	...	...	...
470	...	...	...	...	...	...

(56)

	10	20	30	40	50
480					
490					
500					
510					
520					

	60	70	80	90	100	110
480	♠	♠	♠	♠	♠	♠
490	♠	♠	♠	♠	♠	♠
500	♠	♠	♠	♠	♠	♠
510	♠	♠	♠	♠	♠	♠
520	♠	♠	♠	♠	♠	♠



	110	120	130	140	150	160
480						
490						
500						
510						
520						

