

955 Drinking Bacchus



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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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Drinking Bacchus

Stitch Count		Recommended Fabric Color	
Horizontal:	249	Antique White	
Vertical:	323		





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 fabric s.

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:	45	17.67	59	22.98	40	15.46	52	20.1	35	13.75	46	17.875
Including Margins:	61	24	75	29	56	22	68	27	51	20	62	24
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	63	24.73	82	32.17	52	20.61	68	26.81	26	10.3	34	13.4
Including Margins:	79	31	98	39	68	27	84	33	42	17	50	20
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	25	9.89	33	12.86	24	9.51	31	12.37	23	9.16	30	11.91
Including Margins:	41	16	49	19	40	16	47	19	39	16	46	18
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	22	8.83	29	11.49	21	8.24	27	10.72	19	7.73	25	10.05
Including Margins:	38	15	45	18	37	15	43	17	35	14	41	17

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

Symbol	DMC	Name
	300	Mahogany-VY DK
	301	Mahogany-MD
	310	Black
	341	Blue Violet-LT
	369	Pistachio Green-VY LT
	370	Mustard-MD
	372	Mustard-LT
	415	Pearl Gray
	422	Hazelnut Brown-LT
	436	Tan
	437	Tan-LT
	451	Shell Gray-DK
	452	Shell Gray-MD
	522	Fern Green
	524	Fern Green-VY LT
	564	Jade-VY LT
	610	Drab Brown-DK
	611	Drab Brown
	612	Drab Brown-LT
	632	Desert Sand-UL VY DK
	640	Beige Gray-VY DK
	642	Beige Gray-DK
	646	Beaver Gray-DK
	647	Beaver Gray-MD
	648	Beaver Gray-LT
	677	Old Gold-VY LT
	712	Cream
	738	Tan-VY LT
	739	Tan-UL VY LT
	746	Off White
	747	Sky Blue-VY LT
	758	Terra Cotta-VY LT
	762	Pearl Gray-VY LT
	775	Baby Blue-VY LT
	800	Delft Blue-Pale
	839	Beige Brown-DK

	840	Beige Brown-MD
	926	Gray Green-MD
	927	Gray Green-LT
	932	Antique Blue-LT
	934	Black Avocado Green
	935	Avocado Green-DK
	938	Coffee Brown-UL DK
	3021	Brown Gray-VY DK
	3022	Brown Gray-MD
	3024	Brown Gray-VY LT
	3031	Mocha Brown-VY DK
	3046	Yellow Beige-MD
	3047	Yellow Beige-LT
	3052	Green Gray-MD
	3064	Desert Sand
	3362	Pine Green-DK
	3371	Black Brown
	3752	Antique Blue-VY LT
	3753	Antique Blue-UL VY LT
	3756	Baby Blue-UL VY LT
	3761	Sky Blue-LT
	3772	Desert Sand-VY DK
	3781	Mocha Brown-DK
	3787	Brown Gray-DK
	3790	Beige Gray-UL DK
	3799	Pewter Gray-VY DK
	3811	Turquoise-VY LT
	3823	Yellow-UL Pale
	3828	Hazelnut Brown
	3830	Terra Cotta-MD
	3841	Baby Blue-Pale
	3856	Mahogany-UL VY LT
	3857	Rosewood-DK
	3862	Mocha Beige-DK
	3864	Mocha Beige-LT
	3865	Winter White
	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
⌘	839	Beige Brown-DK	3787	Brown Gray -DK
⌘	3859	Rosewood-LT	3772	Desert Sand-VY DK
⌘	356	Terra Cotta-MD	436	Tan
⌘	840	Beige Brown-MD	3772	Desert Sand-VY DK
⌘	436	Tan	437	Tan-LT
⌘	356	Terra Cotta-MD	370	Mustard-MD
⌘	3021	Brown Gray -VY DK	3787	Brown Gray -DK
⌘	3856	Mahogany-UL VY LT	738	Tan-VY LT
⌘	3857	Rosewood-DK	632	Desert Sand-UL VY DK
⌘	520	Fern Green-DK	844	Beaver Brown-UL DK
⌘	415	Pearl Gray	955	Nile Green-LT
⌘	839	Beige Brown-DK	433	Brown-MD
⌘	932	Antique Blue-LT	3752	Antique Blue-VY LT
⌘	3811	Turquoise-VY LT	3752	Antique Blue-VY LT
⌘	747	Sky Blue-VY LT	3865	Winter White
⌘	775	Baby Blue-VY LT	747	Sky Blue-VY LT
⌘	3752	Antique Blue-VY LT	3753	Antique Blue-UL VY LT
⌘	800	Delft Blue-Pale	3841	Baby Blue-Pale
⌘	3841	Baby Blue-Pale	747	Sky Blue-VY LT
⌘	3752	Antique Blue-VY LT	341	Blue Violet-LT
⌘	341	Blue Violet-LT	932	Antique Blue-LT
⌘	341	Blue Violet-LT	800	Delft Blue-Pale
⌘	955	Nile Green-LT	3753	Antique Blue-UL VY LT
⌘	646	Beaver Gray-DK	503	Blue Green-MD
⌘	645	Beaver Gray-VY DK	502	Blue Green
⌘	502	Blue Green	3363	Pine Green-MD
⌘	502	Blue Green	646	Beaver Gray-DK
⌘	3787	Brown Gray -DK	3363	Pine Green-MD
⌘	502	Blue Green	522	Fern Green
⌘	520	Fern Green-DK	522	Fern Green
⌘	3721	Shell Pink-DK	3790	Beige Gray-UL DK
⌘	632	Desert Sand-UL VY DK	433	Brown-MD
⌘	3790	Beige Gray-UL DK	610	Drab Brown-DK
⌘	502	Blue Green	844	Beaver Brown-UL DK
⌘	3813	Blue Green-LT	647	Beaver Gray-MD
⌘	522	Fern Green	524	Fern Green-VY LT
⌘	3799	Pewter Gray -VY DK	520	Fern Green-DK
⌘	520	Fern Green-DK	535	Ash Gray -VY LT
⌘	522	Fern Green	535	Ash Gray -VY LT
⌘	844	Beaver Brown-UL DK	934	Black Avocado Green
⌘	839	Beige Brown-DK	3790	Beige Gray-UL DK
⌘	433	Brown-MD	3790	Beige Gray-UL DK
⌘	3772	Desert Sand-VY DK	3032	Mocha Brown-MD
⌘	3064	Desert Sand	612	Drab Brown-LT
⌘	3064	Desert Sand	372	Mustard-LT
⌘	3772	Desert Sand-VY DK	612	Drab Brown-LT
⌘	437	Tan-LT	3864	Mocha Beige-LT
⌘	945	Tawny	738	Tan-VY LT
⌘	738	Tan-VY LT	677	Old Gold-VY LT
⌘	738	Tan-VY LT	739	Tan-UL VY LT
⌘	677	Old Gold-VY LT	739	Tan-UL VY LT
⌘	746	Off White	3823	Yellow -UL Pale
⌘	3032	Mocha Brown-MD	3790	Beige Gray-UL DK

田	612	Drab Brown-LT	3859	Rosewood-LT
⦿	3032	Mocha Brown-MD	372	Mustard-LT
م	745	Yellow -LT Pale	754	Peach-LT
٠١	3855	Autumn Gold-LT	945	Tawny
c	951	Tawny -LT	3823	Yellow -UL Pale
u	745	Yellow -LT Pale	3823	Yellow -UL Pale
(745	Yellow -LT Pale	746	Off White
::	3823	Yellow -UL Pale	3855	Autumn Gold-LT
ا	3825	Pumpkin-Pale	3856	Mahogany-UL VY LT
☐	356	Terra Cotta-MD	420	Hazelnut Brown-DK
c	301	Mahogany-MD	356	Terra Cotta-MD
	758	Terra Cotta-VY LT	437	Tan-LT
▲	356	Terra Cotta-MD	437	Tan-LT
☐	839	Beige Brown-DK	938	Coffee Brown-UL DK
■	975	Golden Brown-DK	356	Terra Cotta-MD
+	840	Beige Brown-MD	3862	Mocha Beige-DK
✦	3721	Shell Pink-DK	840	Beige Brown-MD
*	3722	Shell Pink-MD	840	Beige Brown-MD
⇒	437	Tan-LT	3825	Pumpkin-Pale
3	613	Drab Brown-VY LT	739	Tan-UL VY LT
♦♦	926	Gray Green-MD	503	Blue Green-MD
⊕	926	Gray Green-MD	927	Gray Green-LT
⌘	927	Gray Green-LT	503	Blue Green-MD
⦿	926	Gray Green-MD	451	Shell Gray-DK
↓	927	Gray Green-LT	451	Shell Gray-DK
⦿	3864	Mocha Beige-LT	647	Beaver Gray-MD
⦿	932	Antique Blue-LT	564	Jade-VY LT
⦿	301	Mahogany-MD	632	Desert Sand-UL VY DK
↓	3721	Shell Pink-DK	975	Golden Brown-DK
☐	738	Tan-VY LT	3064	Desert Sand
v	564	Jade-VY LT	927	Gray Green-LT
↖	415	Pearl Gray	932	Antique Blue-LT
×	524	Fern Green-VY LT	503	Blue Green-MD
⌘	503	Blue Green-MD	522	Fern Green
⌘	612	Drab Brown-LT	3032	Mocha Brown-MD
..	3866	Mocha Brown-UL VY LT	955	Nile Green-LT
o	524	Fern Green-VY LT	369	Pistachio Green-VY LT
♠	420	Hazelnut Brown-DK	3863	Mocha Beige-MD
❖	612	Drab Brown-LT	3862	Mocha Beige-DK
⦿	612	Drab Brown-LT	3045	Yellow Beige-DK
☐	677	Old Gold-VY LT	372	Mustard-LT
⦿	520	Fern Green-DK	3787	Brown Gray -DK
⦿	522	Fern Green	3787	Brown Gray -DK
⦿	3787	Brown Gray -DK	3362	Pine Green-DK
↔	612	Drab Brown-LT	3052	Green Gray-MD
⦿	3790	Beige Gray-UL DK	3052	Green Gray-MD
▼	3363	Pine Green-MD	520	Fern Green-DK
⦿	3864	Mocha Beige-LT	522	Fern Green
⦿	520	Fern Green-DK	645	Beaver Gray-VY DK

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
300	Mahogany-VY DK	5	1	5	1	4	1
301	Mahogany-MD	20	7	19	7	17	6
310	Black	321	126	306	120	275	108
341	Blue Violet-LT	164	64	156	61	140	55
356	Terra Cotta-MD	89	35	85	33	76	29
369	Pistachio Green-VY LT	16	6	16	6	14	5
370	Mustard-MD	94	37	89	35	80	31
372	Mustard-LT	201	79	191	75	172	67
415	Pearl Gray	159	62	151	59	136	53
420	Hazelnut Brown-DK	78	30	75	29	67	26
422	Hazelnut Brown-LT	138	54	132	51	119	46
433	Brown-MD	109	42	104	40	93	36
436	Tan	111	43	106	41	95	37
437	Tan-LT	250	98	238	93	214	84
451	Shell Gray-DK	25	9	24	9	21	8
452	Shell Gray-MD	9	3	9	3	8	3
502	Blue Green	345	135	328	129	295	116
503	Blue Green-MD	197	77	188	74	169	66
520	Fern Green-DK	900	354	857	337	772	303
522	Fern Green	774	304	737	290	664	261
524	Fern Green-VY LT	142	55	135	53	121	47
535	Ash Gray-VY LT	160	62	152	59	137	53
564	Jade-VY LT	98	38	93	36	84	33
610	Drab Brown-DK	129	50	123	48	110	43
611	Drab Brown	21	8	20	7	18	7
612	Drab Brown-LT	615	242	586	230	527	207
613	Drab Brown-VY LT	6	2	6	2	5	1
632	Desert Sand-UL VY DK	127	50	121	47	109	42
640	Beige Gray-VY DK	34	13	32	12	29	11
642	Beige Gray-DK	45	17	43	16	39	15
645	Beaver Gray-VY DK	220	86	210	82	189	74
646	Beaver Gray-DK	70	27	67	26	60	23
647	Beaver Gray-MD	48	18	46	18	41	16
648	Beaver Gray-LT	33	12	31	12	28	11
677	Old Gold-VY LT	447	175	426	167	383	150
712	Cream	10	3	9	3	8	3
738	Tan-VY LT	777	305	740	291	666	262
739	Tan-UL VY LT	206	81	196	77	176	69
745	Yellow-LT Pale	575	226	547	215	492	193
746	Off White	551	216	525	206	472	185
747	Sky Blue-VY LT	1606	632	1530	602	1377	542
754	Peach-LT	126	49	120	47	108	42
758	Terra Cotta-VY LT	25	9	24	9	22	8
762	Pearl Gray-VY LT	15	5	14	5	13	5
775	Baby Blue-VY LT	373	146	355	139	320	125
800	Delft Blue-Pale	216	85	206	81	185	72
839	Beige Brown-DK	291	114	277	109	249	98
840	Beige Brown-MD	241	94	230	90	207	81
844	Beaver Brown-UL DK	543	213	517	203	465	183
926	Gray Green-MD	60	23	57	22	52	20
927	Gray Green-LT	183	72	174	68	157	61
932	Antique Blue-LT	212	83	202	79	182	71
934	Black Avocado Green	903	355	860	338	774	304
935	Avocado Green-DK	230	90	219	86	197	77

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938	Coffee Brown-UL DK	261	102	249	98	224	88
945	Tawny	129	50	123	48	111	43
951	Tawny-LT	75	29	71	27	64	25
955	Nile Green-LT	94	37	90	35	81	31
975	Golden Brown-DK	47	18	45	17	40	15
3021	Brown Gray-VY DK	368	144	350	137	315	124
3022	Brown Gray-MD	40	15	38	14	34	13
3024	Brown Gray-VY LT	14	5	14	5	12	4
3031	Mocha Brown-VY DK	289	113	275	108	247	97
3032	Mocha Brown-MD	109	42	104	40	93	36
3045	Yellow Beige-DK	54	21	52	20	46	18
3046	Yellow Beige-MD	75	29	72	28	65	25
3047	Yellow Beige-LT	98	38	94	37	84	33
3052	Green Gray-MD	271	106	258	101	232	91
3064	Desert Sand	265	104	252	99	227	89
3362	Pine Green-DK	90	35	86	33	77	30
3363	Pine Green-MD	346	136	330	129	297	116
3371	Black Brown	320	125	305	120	274	107
3721	Shell Pink-DK	75	29	71	27	64	25
3722	Shell Pink-MD	7	2	6	2	6	2
3752	Antique Blue-VY LT	500	196	476	187	429	168
3753	Antique Blue-UL VY LT	538	211	512	201	461	181
3756	Baby Blue-UL VY LT	46	18	44	17	39	15
3761	Sky Blue-LT	75	29	72	28	64	25
3772	Desert Sand-VY DK	330	129	314	123	283	111
3781	Mocha Brown-DK	129	50	123	48	111	43
3787	Brown Gray-DK	658	259	627	246	564	222
3790	Beige Gray-UL DK	322	126	307	120	276	108
3799	Pewter Gray-VY DK	177	69	168	66	151	59
3811	Turquoise-VY LT	161	63	153	60	138	54
3813	Blue Green-LT	17	6	16	6	15	5
3823	Yellow-UL Pale	753	296	717	282	646	254
3825	Pumpkin-Pale	6	2	6	2	5	1
3828	Hazelnut Brown	70	27	67	26	60	23
3830	Terra Cotta-MD	8	3	8	3	7	2
3841	Baby Blue-Pale	1208	475	1151	453	1036	407
3855	Autumn Gold-LT	158	62	151	59	135	53
3856	Mahogany-UL VY LT	111	43	105	41	95	37
3857	Rosewood-DK	18	7	17	6	15	5
3859	Rosewood-LT	80	31	76	29	69	27
3862	Mocha Beige-DK	385	151	366	144	330	129
3863	Mocha Beige-MD	70	27	66	25	60	23
3864	Mocha Beige-LT	142	55	135	53	122	48
3865	Winter White	285	112	271	106	244	96
3866	Mocha Brown-UL VY LT	24	9	23	9	21	8
Ecru	Ecru	6	2	5	1	5	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
300	Mahogany-VY DK	7	2	6	2	3	1
301	Mahogany-MD	31	11	26	9	13	5
310	Black	495	194	413	162	206	81
341	Blue Violet-LT	252	99	210	83	105	41
356	Terra Cotta-MD	137	52	114	44	57	22
369	Pistachio Green-VY LT	25	9	21	8	11	4

370	Mustard-MD	144	56	120	47	60	23
372	Mustard-LT	310	121	258	101	129	50
415	Pearl Gray	245	95	204	80	102	40
420	Hazelnut Brown-DK	121	47	101	39	50	20
422	Hazelnut Brown-LT	214	83	179	69	89	35
433	Brown-MD	167	65	140	54	70	27
436	Tan	171	67	143	56	71	28
437	Tan-LT	385	151	321	126	161	63
451	Shell Gray-DK	38	14	32	12	16	6
452	Shell Gray-MD	14	5	12	5	6	2
502	Blue Green	531	209	443	174	221	87
503	Blue Green-MD	304	119	254	99	127	50
520	Fern Green-DK	1390	545	1158	455	579	227
522	Fern Green	1195	470	996	392	498	196
524	Fern Green-VY LT	218	85	182	71	91	35
535	Ash Gray -VY LT	247	95	206	80	103	40
564	Jade-VY LT	151	59	126	50	63	25
610	Drab Brown-DK	198	77	165	65	83	32
611	Drab Brown	32	13	27	11	14	5
612	Drab Brown-LT	949	373	791	311	395	155
613	Drab Brown-VY LT	9	2	8	2	4	1
632	Desert Sand-UL VY DK	196	76	164	63	82	32
640	Beige Gray-VY DK	52	20	44	17	22	8
642	Beige Gray-DK	70	27	59	23	29	11
645	Beaver Gray-VY DK	340	133	284	111	142	56
646	Beaver Gray-DK	108	41	90	35	45	17
647	Beaver Gray-MD	74	29	62	24	31	12
648	Beaver Gray-LT	50	20	42	17	21	8
677	Old Gold-VY LT	689	270	575	225	287	113
712	Cream	14	5	12	5	6	2
738	Tan-VY LT	1199	472	999	393	500	197
739	Tan-UL VY LT	317	124	264	104	132	52
745	Yellow -LT Pale	886	347	738	290	369	145
746	Off White	850	333	708	278	354	139
747	Sky Blue-VY LT	2479	976	2066	813	1033	407
754	Peach-LT	194	76	162	63	81	32
758	Terra Cotta-VY LT	40	14	33	12	17	6
762	Pearl Gray-VY LT	23	9	20	8	10	4
775	Baby Blue-VY LT	576	225	480	188	240	94
800	Delft Blue-Pale	333	130	278	108	139	54
839	Beige Brown-DK	448	176	374	147	187	74
840	Beige Brown-MD	373	146	311	122	155	61
844	Beaver Brown-UL DK	837	329	698	275	349	137
926	Gray Green-MD	94	36	78	30	39	15
927	Gray Green-LT	283	110	236	92	118	46
932	Antique Blue-LT	328	128	273	107	137	53
934	Black Avocado Green	1393	547	1161	456	581	228
935	Avocado Green-DK	355	139	296	116	148	58
938	Coffee Brown-UL DK	403	158	336	132	168	66
945	Tawny	200	77	167	65	83	32
951	Tawny-LT	115	45	96	38	48	19
955	Nile Green-LT	146	56	122	47	61	23
975	Golden Brown-DK	72	27	60	23	30	11
3021	Brown Gray -VY DK	567	223	473	186	236	93
3022	Brown Gray -MD	61	23	51	20	26	10
3024	Brown Gray -VY LT	22	7	18	6	9	3
3031	Mocha Brown-VY DK	445	175	371	146	185	73
3032	Mocha Brown-MD	167	65	140	54	70	27
3045	Yellow Beige-DK	83	32	69	27	35	14

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3046	Yellow Beige-MD	117	45	98	38	49	19
3047	Yellow Beige-LT	151	59	126	50	63	25
3052	Green Gray-MD	418	164	348	137	174	68
3064	Desert Sand	409	160	341	134	170	67
3362	Pine Green-DK	139	54	116	45	58	23
3363	Pine Green-MD	535	209	446	174	223	87
3371	Black Brown	493	193	411	161	206	80
3721	Shell Pink-DK	115	45	96	38	48	19
3722	Shell Pink-MD	11	4	9	3	5	2
3752	Antique Blue-VY LT	772	302	644	252	322	126
3753	Antique Blue-UL VY LT	830	326	692	272	346	136
3756	Baby Blue-UL VY LT	70	27	59	23	29	11
3761	Sky Blue-LT	115	45	96	38	48	19
3772	Desert Sand-VY DK	509	200	425	167	212	83
3781	Mocha Brown-DK	200	77	167	65	83	32
3787	Brown Gray -DK	1015	400	846	333	423	167
3790	Beige Gray -UL DK	497	194	414	162	207	81
3799	Pewter Gray -VY DK	272	106	227	89	113	44
3811	Turquoise-VY LT	248	97	207	81	104	41
3813	Blue Green-LT	27	9	23	8	11	4
3823	Yellow -UL Pale	1163	457	969	381	485	191
3825	Pumpkin-Pale	9	2	8	2	4	1
3828	Hazelnut Brown	108	41	90	35	45	17
3830	Terra Cotta-MD	13	4	11	3	5	2
3841	Baby Blue-Pale	1865	733	1554	611	777	305
3855	Autumn Gold-LT	243	95	203	80	101	40
3856	Mahogany-UL VY LT	171	67	143	56	71	28
3857	Rosewood-DK	27	9	23	8	11	4
3859	Rosewood-LT	124	49	104	41	52	20
3862	Mocha Beige-DK	594	232	495	194	248	97
3863	Mocha Beige-MD	108	41	90	35	45	17
3864	Mocha Beige-LT	220	86	183	72	92	36
3865	Winter White	439	173	366	144	183	72
3866	Mocha Brown-UL VY LT	38	14	32	12	16	6
Ecru	Ecru	9	2	8	2	4	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
300	Mahogany-VY DK	3	1	3	1	3	1
301	Mahogany-MD	12	4	12	4	11	4
310	Black	198	78	190	75	183	72
341	Blue Violet-LT	101	40	97	38	93	37
356	Terra Cotta-MD	55	21	53	20	51	19
369	Pistachio Green-VY LT	10	4	10	3	9	3
370	Mustard-MD	58	22	55	21	53	21
372	Mustard-LT	124	48	119	46	115	45
415	Pearl Gray	98	38	94	37	91	35
420	Hazelnut Brown-DK	48	19	46	18	45	17
422	Hazelnut Brown-LT	86	33	82	32	79	31
433	Brown-MD	67	26	64	25	62	24
436	Tan	68	27	66	26	63	25
437	Tan-LT	154	60	148	58	143	56
451	Shell Gray-DK	15	6	15	6	14	5
452	Shell Gray-MD	6	2	6	2	5	2
502	Blue Green	212	84	204	80	197	77

503	Blue Green-MD	122	48	117	46	113	44
520	Fern Green-DK	556	218	534	210	515	202
522	Fern Green	478	188	460	181	443	174
524	Fern Green-VY LT	87	34	84	33	81	31
535	Ash Gray -VY LT	99	38	95	37	91	35
564	Jade-VY LT	60	24	58	23	56	22
610	Drab Brown-DK	79	31	76	30	73	29
611	Drab Brown	13	5	12	5	12	5
612	Drab Brown-LT	379	149	365	143	351	138
613	Drab Brown-VY LT	4	1	3	1	3	1
632	Desert Sand-UL VY DK	78	30	75	29	73	28
640	Beige Gray-VY DK	21	8	20	8	19	7
642	Beige Gray-DK	28	11	27	10	26	10
645	Beaver Gray-VY DK	136	53	131	51	126	49
646	Beaver Gray-DK	43	17	42	16	40	15
647	Beaver Gray-MD	30	12	28	11	27	11
648	Beaver Gray-LT	20	8	19	8	19	7
677	Old Gold-VY LT	276	108	265	104	255	100
712	Cream	6	2	6	2	5	2
738	Tan-VY LT	480	189	461	181	444	175
739	Tan-UL VY LT	127	50	122	48	117	46
745	Yellow-LT Pale	354	139	341	134	328	129
746	Off White	340	133	327	128	315	123
747	Sky Blue-VY LT	991	390	953	375	918	361
754	Peach-LT	78	30	75	29	72	28
758	Terra Cotta-VY LT	16	6	15	6	15	5
762	Pearl Gray-VY LT	9	4	9	3	9	3
775	Baby Blue-VY LT	230	90	222	87	213	83
800	Delft Blue-Pale	133	52	128	50	123	48
839	Beige Brown-DK	179	71	172	68	166	65
840	Beige Brown-MD	149	58	143	56	138	54
844	Beaver Brown-UL DK	335	132	322	127	310	122
926	Gray Green-MD	37	14	36	14	35	13
927	Gray Green-LT	113	44	109	42	105	41
932	Antique Blue-LT	131	51	126	49	121	47
934	Black Avocado Green	557	219	536	210	516	203
935	Avocado Green-DK	142	55	136	53	131	51
938	Coffee Brown-UL DK	161	63	155	61	149	59
945	Tawny	80	31	77	30	74	29
951	Tawny-LT	46	18	44	17	43	17
955	Nile Green-LT	58	22	56	21	54	21
975	Golden Brown-DK	29	11	28	10	27	10
3021	Brown Gray -VY DK	227	89	218	86	210	83
3022	Brown Gray -MD	24	9	24	9	23	9
3024	Brown Gray -VY LT	9	3	8	3	8	3
3031	Mocha Brown-VY DK	178	70	171	67	165	65
3032	Mocha Brown-MD	67	26	64	25	62	24
3045	Yellow Beige-DK	33	13	32	12	31	12
3046	Yellow Beige-MD	47	18	45	17	43	17
3047	Yellow Beige-LT	60	24	58	23	56	22
3052	Green Gray-MD	167	66	161	63	155	61
3064	Desert Sand	163	64	157	62	151	59
3362	Pine Green-DK	55	22	53	21	51	20
3363	Pine Green-MD	214	84	206	80	198	77
3371	Black Brown	197	77	190	74	183	71
3721	Shell Pink-DK	46	18	44	17	43	17
3722	Shell Pink-MD	4	1	4	1	4	1
3752	Antique Blue-VY LT	309	121	297	116	286	112
3753	Antique Blue-UL VY LT	332	130	319	125	307	121

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3756	Baby Blue-UL VY LT	28	11	27	10	26	10
3761	Sky Blue-LT	46	18	44	17	43	17
3772	Desert Sand-VY DK	204	80	196	77	189	74
3781	Mocha Brown-DK	80	31	77	30	74	29
3787	Brown Gray -DK	406	160	390	154	376	148
3790	Beige Gray-UL DK	199	78	191	75	184	72
3799	Pewter Gray -VY DK	109	42	105	41	101	39
3811	Turquoise-VY LT	99	39	96	37	92	36
3813	Blue Green-LT	11	4	10	3	10	3
3823	Yellow -UL Pale	465	183	447	176	431	169
3825	Pumpkin-Pale	4	1	3	1	3	1
3828	Hazelnut Brown	43	17	42	16	40	15
3830	Terra Cotta-MD	5	1	5	1	5	1
3841	Baby Blue-Pale	746	293	717	282	691	271
3855	Autumn Gold-LT	97	38	93	37	90	35
3856	Mahogany-UL VY LT	68	27	66	26	63	25
3857	Rosewood-DK	11	4	10	3	10	3
3859	Rosewood-LT	50	19	48	19	46	18
3862	Mocha Beige-DK	238	93	228	89	220	86
3863	Mocha Beige-MD	43	17	42	16	40	15
3864	Mocha Beige-LT	88	35	84	33	81	32
3865	Winter White	176	69	169	66	163	64
3866	Mocha Brown-UL VY LT	15	6	15	6	14	5
Ecru	Ecru	4	1	3	1	3	1

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
300	Mahogany-VY DK	3	1	2	1	2	1
301	Mahogany-MD	11	4	10	4	10	3
310	Black	177	69	165	65	155	61
341	Blue Violet-LT	90	35	84	33	79	31
356	Terra Cotta-MD	49	19	46	17	43	16
369	Pistachio Green-VY LT	9	3	8	3	8	3
370	Mustard-MD	51	20	48	19	45	17
372	Mustard-LT	111	43	103	40	97	38
415	Pearl Gray	87	34	82	32	77	30
420	Hazelnut Brown-DK	43	17	40	16	38	15
422	Hazelnut Brown-LT	77	30	71	28	67	26
433	Brown-MD	60	23	56	22	52	20
436	Tan	61	24	57	22	53	21
437	Tan-LT	138	54	128	50	120	47
451	Shell Gray-DK	14	5	13	5	12	5
452	Shell Gray-MD	5	2	5	2	5	2
502	Blue Green	190	75	177	70	166	65
503	Blue Green-MD	109	42	101	40	95	37
520	Fern Green-DK	496	195	463	182	434	170
522	Fern Green	427	168	398	157	374	147
524	Fern Green-VY LT	78	30	73	28	68	26
535	Ash Gray-VY LT	88	34	82	32	77	30
564	Jade-VY LT	54	21	50	20	47	19
610	Drab Brown-DK	71	28	66	26	62	24
611	Drab Brown	12	5	11	4	10	4
612	Drab Brown-LT	339	133	316	124	296	116
613	Drab Brown-VY LT	3	1	3	1	3	1
632	Desert Sand-UL VY DK	70	27	65	25	61	24
640	Beige Gray-VY DK	19	7	17	7	16	6

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642	Beige Gray-DK	25	10	23	9	22	8
645	Beaver Gray-VY DK	122	48	113	44	106	42
646	Beaver Gray-DK	39	15	36	14	34	13
647	Beaver Gray-MD	26	10	25	10	23	9
648	Beaver Gray-LT	18	7	17	7	16	6
677	Old Gold-VY LT	246	96	230	90	215	84
712	Cream	5	2	5	2	5	2
738	Tan-VY LT	428	168	400	157	375	147
739	Tan-UL VY LT	113	44	106	41	99	39
745	Yellow -LT Pale	316	124	295	116	277	109
746	Off White	303	119	283	111	266	104
747	Sky Blue-VY LT	885	348	826	325	775	305
754	Peach-LT	69	27	65	25	61	24
758	Terra Cotta-VY LT	14	5	13	5	12	5
762	Pearl Gray-VY LT	8	3	8	3	7	3
775	Baby Blue-VY LT	206	80	192	75	180	70
800	Delft Blue-Pale	119	46	111	43	104	41
839	Beige Brown-DK	160	63	149	59	140	55
840	Beige Brown-MD	133	52	124	49	116	46
844	Beaver Brown-UL DK	299	118	279	110	262	103
926	Gray Green-MD	33	13	31	12	29	11
927	Gray Green-LT	101	39	94	37	88	34
932	Antique Blue-LT	117	46	109	43	102	40
934	Black Avocado Green	498	195	464	182	435	171
935	Avocado Green-DK	127	50	118	46	111	43
938	Coffee Brown-UL DK	144	57	134	53	126	50
945	Tawny	71	28	67	26	62	24
951	Tawny-LT	41	16	38	15	36	14
955	Nile Green-LT	52	20	49	19	46	17
975	Golden Brown-DK	26	10	24	9	23	8
3021	Brown Gray -VY DK	203	80	189	74	177	70
3022	Brown Gray -MD	22	8	20	8	19	7
3024	Brown Gray -VY LT	8	3	7	2	7	2
3031	Mocha Brown-VY DK	159	62	148	58	139	55
3032	Mocha Brown-MD	60	23	56	22	52	20
3045	Yellow Beige-DK	30	12	28	11	26	10
3046	Yellow Beige-MD	42	16	39	15	37	14
3047	Yellow Beige-LT	54	21	50	20	47	19
3052	Green Gray-MD	149	59	139	55	131	51
3064	Desert Sand	146	57	136	53	128	50
3362	Pine Green-DK	50	19	46	18	43	17
3363	Pine Green-MD	191	75	178	70	167	65
3371	Black Brown	176	69	164	64	154	60
3721	Shell Pink-DK	41	16	38	15	36	14
3722	Shell Pink-MD	4	1	4	1	3	1
3752	Antique Blue-VY LT	276	108	257	101	241	95
3753	Antique Blue-UL VY LT	296	116	277	109	259	102
3756	Baby Blue-UL VY LT	25	10	23	9	22	8
3761	Sky Blue-LT	41	16	38	15	36	14
3772	Desert Sand-VY DK	182	71	170	67	159	62
3781	Mocha Brown-DK	71	28	67	26	62	24
3787	Brown Gray -DK	363	143	338	133	317	125
3790	Beige Gray-UL DK	177	69	166	65	155	61
3799	Pewter Gray -VY DK	97	38	91	35	85	33
3811	Turquoise-VY LT	89	35	83	32	78	30
3813	Blue Green-LT	10	3	9	3	8	3
3823	Yellow -UL Pale	415	163	388	152	363	143
3825	Pumpkin-Pale	3	1	3	1	3	1
3828	Hazelnut Brown	39	15	36	14	34	13

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3830	Terra Cotta-MD	5	1	4	1	4	1
3841	Baby Blue-Pale	666	262	622	244	583	229
3855	Autumn Gold-LT	87	34	81	32	76	30
3856	Mahogany-UL VY LT	61	24	57	22	53	21
3857	Rosewood-DK	10	3	9	3	8	3
3859	Rosewood-LT	44	17	41	16	39	15
3862	Mocha Beige-DK	212	83	198	77	186	73
3863	Mocha Beige-MD	39	15	36	14	34	13
3864	Mocha Beige-LT	78	31	73	29	69	27
3865	Winter White	157	62	146	58	137	54
3866	Mocha Brown-UL VY LT	14	5	13	5	12	5
Ecru	Ecru	3	1	3	1	3	1

[illegible]

	60	70	80	90	100
10	Y	Y	Y	Y	Y
20	Y	Y	Y	Y	Y
30	Y	Y	Y	Y	Y
40	Y	Y	Y	Y	Y
50	Y	Y	Y	Y	Y
60	Y	Y	Y	Y	Y
70	Y	Y	Y	Y	Y

(9)

	160	170	180	190	200	210
10	+	2	-	-	-	-
20	+	2	-	-	-	-
30	+	2	-	-	-	-
40	+	2	-	-	-	-
50	+	2	-	-	-	-
60	+	2	-	-	-	-
70	+	2	-	-	-	-
80	+	2	-	-	-	-
90	+	2	-	-	-	-
100	+	2	-	-	-	-
110	+	2	-	-	-	-
120	+	2	-	-	-	-
130	+	2	-	-	-	-
140	+	2	-	-	-	-
150	+	2	-	-	-	-
160	+	2	-	-	-	-
170	+	2	-	-	-	-
180	+	2	-	-	-	-
190	+	2	-	-	-	-
200	+	2	-	-	-	-
210	+	2	-	-	-	-
220	+	2	-	-	-	-
230	+	2	-	-	-	-
240	+	2	-	-	-	-
250	+	2	-	-	-	-
260	+	2	-	-	-	-
270	+	2	-	-	-	-
280	+	2	-	-	-	-
290	+	2	-	-	-	-
300	+	2	-	-	-	-
310	+	2	-	-	-	-
320	+	2	-	-	-	-
330	+	2	-	-	-	-
340	+	2	-	-	-	-
350	+	2	-	-	-	-
360	+	2	-	-	-	-
370	+	2	-	-	-	-
380	+	2	-	-	-	-
390	+	2	-	-	-	-
400	+	2	-	-	-	-
410	+	2	-	-	-	-
420	+	2	-	-	-	-
430	+	2	-	-	-	-
440	+	2	-	-	-	-
450	+	2	-	-	-	-
460	+	2	-	-	-	-
470	+	2	-	-	-	-
480	+	2	-	-	-	-
490	+	2	-	-	-	-
500	+	2	-	-	-	-
510	+	2	-	-	-	-
520	+	2	-	-	-	-
530	+	2	-	-	-	-
540	+	2	-	-	-	-
550	+	2	-	-	-	-
560	+	2	-	-	-	-
570	+	2	-	-	-	-
580	+	2	-	-	-	-
590	+	2	-	-	-	-
600	+	2	-	-	-	-
610	+	2	-	-	-	-
620	+	2	-	-	-	-
630	+	2	-	-	-	-
640	+	2	-	-	-	-
650	+	2	-	-	-	-
660	+	2	-	-	-	-
670	+	2	-	-	-	-
680	+	2	-	-	-	-
690	+	2	-	-	-	-
700	+	2	-	-	-	-
710	+	2	-	-	-	-
720	+	2	-	-	-	-
730	+	2	-	-	-	-
740	+	2	-	-	-	-
750	+	2	-	-	-	-
760	+	2	-	-	-	-
770	+	2	-	-	-	-
780	+	2	-	-	-	-
790	+	2	-	-	-	-
800	+	2	-	-	-	-
810	+	2	-	-	-	-
820	+	2	-	-	-	-
830	+	2	-	-	-	-
840	+	2	-	-	-	-
850	+	2	-	-	-	-
860	+	2	-	-	-	-
870	+	2	-	-	-	-
880	+	2	-	-	-	-
890	+	2	-	-	-	-
900	+	2	-	-	-	-
910	+	2	-	-	-	-
920	+	2	-	-	-	-
930	+	2	-	-	-	-
940	+	2	-	-	-	-
950	+	2	-	-	-	-
960	+	2	-	-	-	-
970	+	2	-	-	-	-
980	+	2	-	-	-	-
990	+	2	-	-	-	-
1000	+	2	-	-	-	-

	220										230										240										
10	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	
	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	
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$$(11) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(12) \quad \dots \quad (13)$$

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

	160	170	180	190	200	210
80
90
100
110
120
130
140
150

(15)

	10	20	30	40	50
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+
200	+	+	+	+	+
210	+	+	+	+	+
220	+	+	+	+	+

	60	70	80	90	100
150					
160					
170					
180					
190					
200					
210					
220					

	110	120	130	140	150	160
150	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
160	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
170	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
180	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
190	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
200	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
210	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️
220	⬆️	⬆️	⬆️	⬆️	⬆️	⬆️

150	160	170	180	190	200	210
150	160	170	180	190	200	210
160	160	170	180	190	200	210
170	160	170	180	190	200	210
180	160	170	180	190	200	210
190	160	170	180	190	200	210
200	160	170	180	190	200	210
210	160	170	180	190	200	210
220	160	170	180	190	200	210

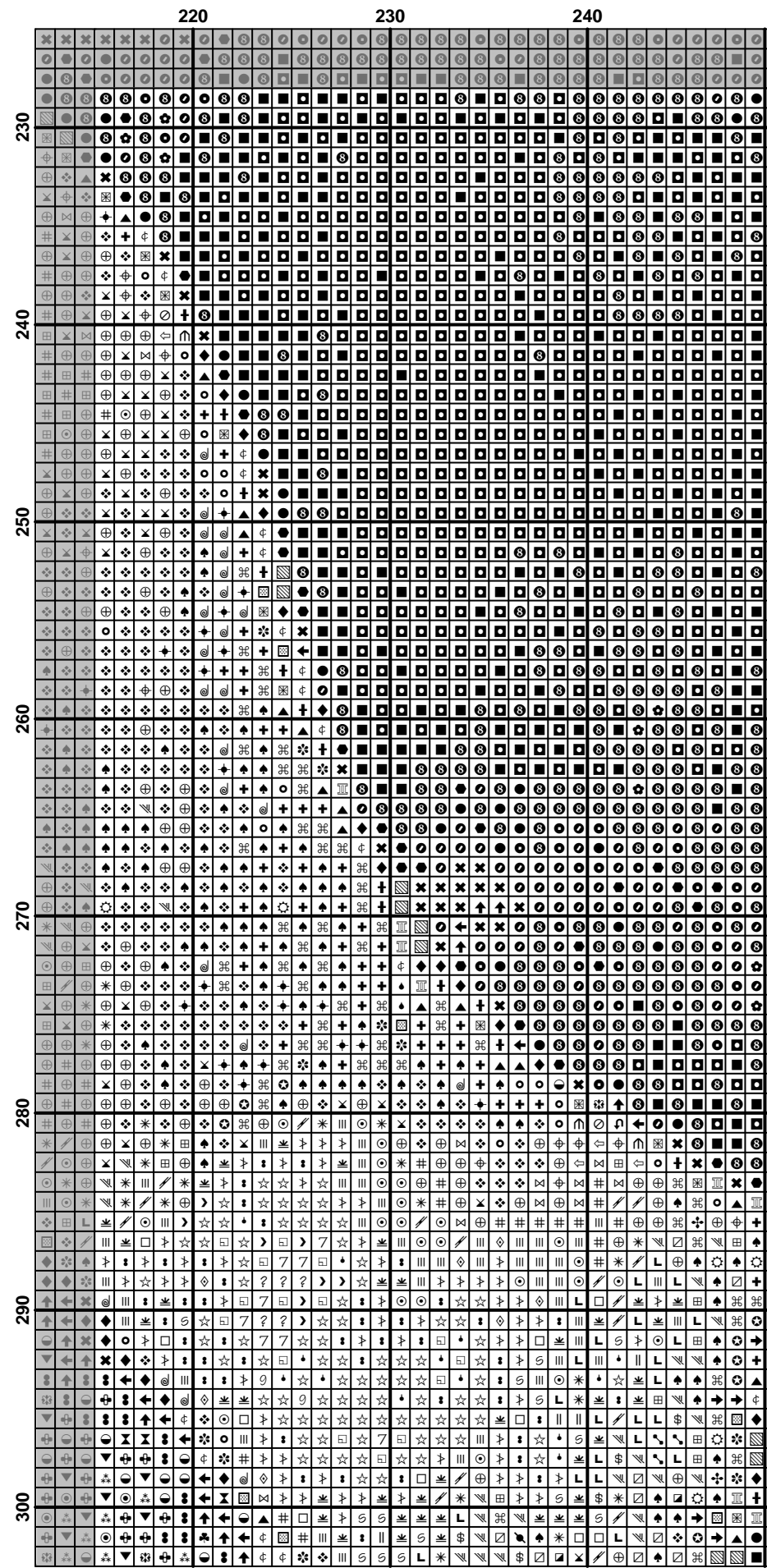
(20)

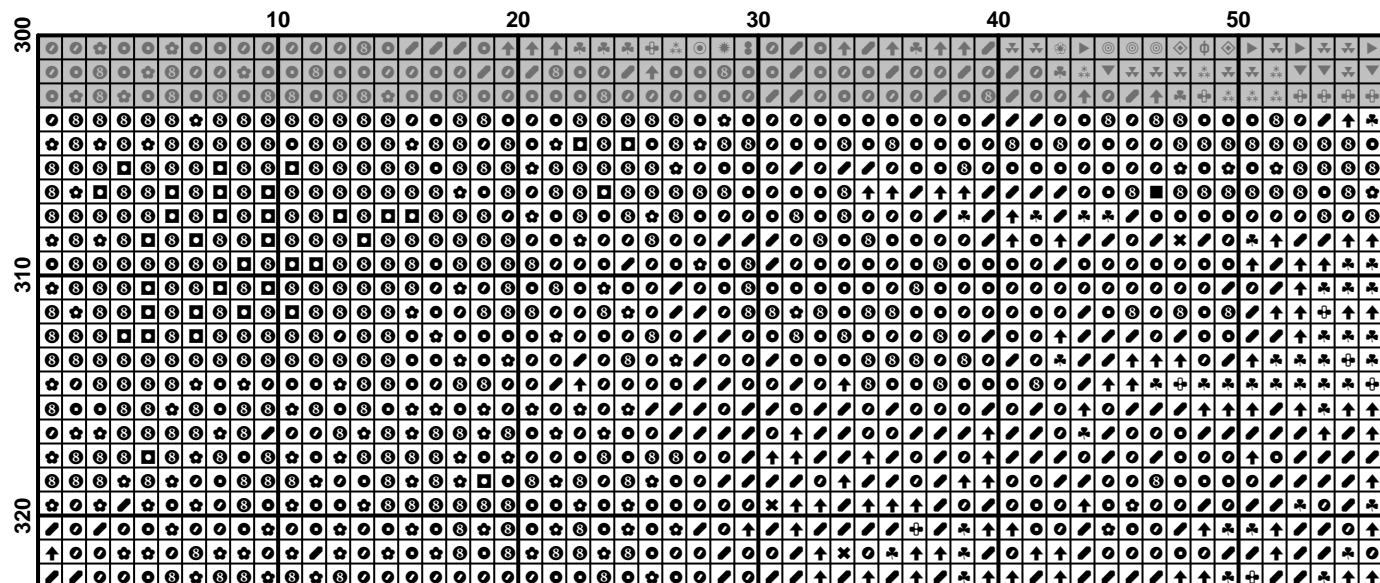
	10	20	30	40	50
230	⬆	⬆	⬆	⬆	⬆
240	⬆	⬆	⬆	⬆	⬆
250	⬆	⬆	⬆	⬆	⬆
260	⬆	⬆	⬆	⬆	⬆
270	⬆	⬆	⬆	⬆	⬆
280	⬆	⬆	⬆	⬆	⬆
290	⬆	⬆	⬆	⬆	⬆
300	⬆	⬆	⬆	⬆	⬆

	60	70	80	90	100
230	⬆	⬆	⬆	⬆	⬆
240	⬆	⬆	⬆	⬆	⬆
250	⬆	⬆	⬆	⬆	⬆
260	⬆	⬆	⬆	⬆	⬆
270	⬆	⬆	⬆	⬆	⬆
280	⬆	⬆	⬆	⬆	⬆
290	⬆	⬆	⬆	⬆	⬆
300	⬆	⬆	⬆	⬆	⬆

(24)

	160	170	180	190	200	210
230	?	?	?	?	?	?
240	?	?	?	?	?	?
250	?	?	?	?	?	?
260	?	?	?	?	?	?
270	?	?	?	?	?	?
280	?	?	?	?	?	?
290	?	?	?	?	?	?
300	?	?	?	?	?	?





[illegible]

