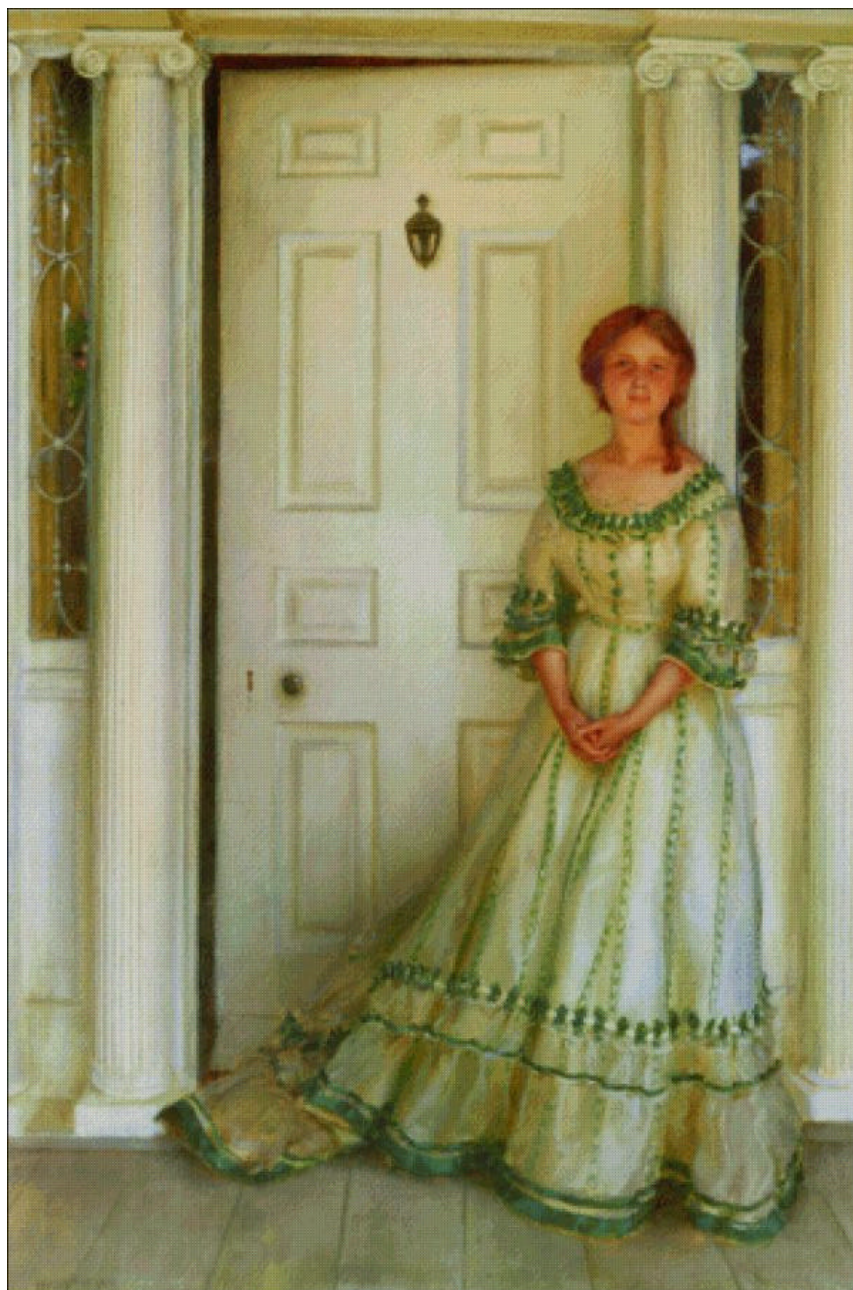


778 Before the War



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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.

When you start using this product you agree that Golden Kite (Golden K), or any people working for or in association with Golden Kite (Golden K), cannot be set responsible for any physical, mental, economical or other type of damage caused by this product (including this document, pattern, threads, needles and any other parts received by you from Golden Kite (Golden K)).

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Before the War

Stitch Count	
Horizontal:	320
Vertical:	483

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:	58	22.82	88	34.39	51	19.96	77	30.09	46	17.75	68	26.75
Including Margins:	74	29	104	41	67	26	93	37	62	24	84	33
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	81	31.94	123	48.14	67	26.62	102	40.12	33	13.31	51	20.06
Including Margins:	97	38	139	55	83	33	118	47	49	20	67	27
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	32	12.77	49	19.25	31	12.28	47	18.51	30	11.83	45	17.83
Including Margins:	48	19	65	26	47	19	63	25	46	18	61	24
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	29	11.41	44	17.19	27	10.64	41	16.04	25	9.98	38	15.04
Including Margins:	45	18	60	24	43	17	57	23	41	16	54	22

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
●	300	Mahogany-VY DK
▲	301	Mahogany-MD
⬆	320	Pistachio Green-MD
↖	368	Pistachio Green-LT
n	369	Pistachio Green-VY LT
↑	371	Mustard
‡	402	Mahogany-VY LT
▣	414	Steel Gray-DK
⅓	436	Tan
≡	437	Tan-LT
✕	520	Fern Green-DK
⌘	522	Fern Green
⊖	523	Fern Green-LT
⊗	524	Fern Green-VY LT
⊙	562	Jade-MD
⊕	580	Moss Green-DK
3	613	Drab Brown-VY LT
*	642	Beige Gray-DK
5	644	Beige Gray-MD
▲	645	Beaver Gray-VY DK
u	677	Old Gold-VY LT
♦	680	Old Gold-DK
‡	704	Chartreuse-BRT
1	712	Cream
⊠	722	Orange Spice-LT
⊕	732	Olive Green
⬇	733	Olive Green-MD
4	734	Olive Green-LT
«	746	Off White
)	747	Sky Blue-VY LT
/	762	Pearl Gray-VY LT
e	772	Yellow Green-VY LT
?	800	Delft Blue-Pale
<	828	Blue-UL VY LT
⊗	832	Golden Olive
⊖	833	Golden Olive-LT
▣	834	Golden Olive-VY LT
✕	922	Copper-LT
↘	927	Gray Green-LT
⌒	932	Antique Blue-LT

■	934	Black Avocado Green
**	937	Avocado Green-MD
■	938	Coffee Brown-UL DK
=	955	Nile Green-LT
7	966	Baby Green-MD
⊕	976	Golden Brown-MD
◇	977	Golden Brown-LT
▲	989	Forest Green
↖	3011	Khaki Green-DK
✕	3012	Khaki Green-MD
⇒	3013	Khaki Green-LT
⊙	3021	Brown Gray-VY DK
∨	3024	Brown Gray-VY LT
†	3032	Mocha Brown-MD
6	3046	Yellow Beige-MD
◆	3051	Green Gray-DK
⊗	3052	Green Gray-MD
^	3078	Golden Yellow-VY LT
⊗	3346	Hunter Green
✦	3347	Yellow Green-MD
›	3348	Yellow Green-LT
♣	3362	Pine Green-DK
⬆	3364	Pine Green
◁	3752	Antique Blue-VY LT
o	3756	Baby Blue-UL VY LT
■	3772	Desert Sand-VY DK
⬇	3781	Mocha Brown-DK
⊙	3787	Brown Gray-DK
▨	3802	Antique Mauve-VY DK
	3813	Blue Green-LT
▲	3815	Celadon Green-DK
▣	3816	Celadon Green-MD
(3823	Yellow-UL Pale
9	3825	Pumpkin-Pale
☉	3826	Golden Brown
○	3827	Golden Brown-Pale
◀	3829	Old Gold-VY DK
#	3853	Autumn Gold-DK
♡	3856	Mahogany-UL VY LT
←	3858	Rosewood-MD
•	3865	Winter White
c	3866	Mocha Brown-UL VY LT
±	Ecrú	Ecrú

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

Symbol	DMC1	Name1	DMC2	Name2
⦿	3021	Brown Gray-VY DK	3051	Green Gray-DK
➔	3781	Mocha Brown-DK	3011	Khaki Green-DK
⌘	3364	Pine Green	522	Fern Green
◊	3046	Yellow Beige-MD	524	Fern Green-VY LT
√	3024	Brown Gray-VY LT	3866	Mocha Brown-UL VY LT
×	642	Beige Gray-DK	523	Fern Green-LT
⌘	369	Pistachio Green-VY LT	644	Beige Gray-MD
⌘	680	Old Gold-DK	833	Golden Olive-LT
⦿	520	Fern Green-DK	3021	Brown Gray-VY DK
✱	3011	Khaki Green-DK	3012	Khaki Green-MD
⦿	3012	Khaki Green-MD	832	Golden Olive
◊	976	Golden Brown-MD	977	Golden Brown-LT
⌘	3826	Golden Brown	436	Tan
⦿	300	Mahogany-VY DK	938	Coffee Brown-UL DK
●	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
⌘	3346	Hunter Green	3362	Pine Green-DK
☆	722	Orange Spice-LT	3827	Golden Brown-Pale
⦿	3348	Yellow Green-LT	677	Old Gold-VY LT
⌘	613	Drab Brown-VY LT	772	Yellow Green-VY LT
⌘	3046	Yellow Beige-MD	369	Pistachio Green-VY LT
::	772	Yellow Green-VY LT	677	Old Gold-VY LT
l	746	Off White	ecru	Ecru
..	613	Drab Brown-VY LT	677	Old Gold-VY LT
↑	3781	Mocha Brown-DK	580	Moss Green-DK
♠	3012	Khaki Green-MD	420	Hazelnut Brown-DK
m	834	Golden Olive-VY LT	3013	Khaki Green-LT
⌘	3823	Yellow-UL Pale	3866	Mocha Brown-UL VY LT
×	3348	Yellow Green-LT	3013	Khaki Green-LT
+	677	Old Gold-VY LT	3046	Yellow Beige-MD
	371	Mustard	3013	Khaki Green-LT
L	371	Mustard	704	Chartreuse-BRT
⦿	371	Mustard	3347	Yellow Green-MD
//	834	Golden Olive-VY LT	371	Mustard
τ	3013	Khaki Green-LT	677	Old Gold-VY LT
√	3348	Yellow Green-LT	772	Yellow Green-VY LT
2	3348	Yellow Green-LT	3046	Yellow Beige-MD
/	3347	Yellow Green-MD	704	Chartreuse-BRT
†	975	Golden Brown-DK	420	Hazelnut Brown-DK
☛	3781	Mocha Brown-DK	975	Golden Brown-DK
⌘	3829	Old Gold-VY DK	732	Olive Green
⦿	3346	Hunter Green	645	Beaver Gray-VY DK
✕	937	Avocado Green-MD	580	Moss Green-DK
⌘	733	Olive Green-MD	3829	Old Gold-VY DK
◊	524	Fern Green-VY LT	966	Baby Green-MD
∞	3024	Brown Gray-VY LT	955	Nile Green-LT
:	746	Off White	3756	Baby Blue-UL VY LT
✕	320	Pistachio Green-MD	645	Beaver Gray-VY DK
⌘	3032	Mocha Brown-MD	3364	Pine Green
⦿	975	Golden Brown-DK	580	Moss Green-DK
♣	920	Copper-MD	975	Golden Brown-DK
☛	420	Hazelnut Brown-DK	301	Mahogany-MD
↓	3787	Brown Gray-DK	3858	Rosewood-MD
♠	3827	Golden Brown-Pale	402	Mahogany-VY LT

✚	402	Mahogany-VY LT	3776	Mahogany-LT
●	3826	Golden Brown	3778	Terra Cotta-LT
Φ	3826	Golden Brown	3776	Mahogany-LT
◎	920	Copper-MD	3776	Mahogany-LT
⊗	3858	Rosewood-MD	3772	Desert Sand-VY DK
Z	3776	Mahogany-LT	3854	Autumn Gold-MD
►	920	Copper-MD	976	Golden Brown-MD
)	3776	Mahogany-LT	3853	Autumn Gold-DK
=	3776	Mahogany-LT	976	Golden Brown-MD
♥	975	Golden Brown-DK	300	Mahogany-VY DK
⌘	920	Copper-MD	221	Shell Pink-VY DK
+	420	Hazelnut Brown-DK	3772	Desert Sand-VY DK
V	402	Mahogany-VY LT	436	Tan
▲	3776	Mahogany-LT	922	Copper-LT
↔	3853	Autumn Gold-DK	922	Copper-LT
◇	722	Orange Spice-LT	922	Copper-LT
◊	3826	Golden Brown	3829	Old Gold-VY DK
⊗	833	Golden Olive-LT	976	Golden Brown-MD
α	437	Tan-LT	3856	Mahogany-UL VY LT
⦿	3826	Golden Brown	977	Golden Brown-LT
▲	722	Orange Spice-LT	3854	Autumn Gold-MD
*	920	Copper-MD	922	Copper-LT
⊗	420	Hazelnut Brown-DK	221	Shell Pink-VY DK
▼	301	Mahogany-MD	645	Beaver Gray-VY DK
★	436	Tan	371	Mustard
■	3011	Khaki Green-DK	3052	Green Gray-MD
卅	922	Copper-LT	3826	Golden Brown
↑	402	Mahogany-VY LT	834	Golden Olive-VY LT
⬆	300	Mahogany-VY DK	301	Mahogany-MD
♣	645	Beaver Gray-VY DK	3032	Mocha Brown-MD
~	3778	Terra Cotta-LT	3013	Khaki Green-LT
⦿	3347	Yellow Green-MD	580	Moss Green-DK
☛	371	Mustard	833	Golden Olive-LT
L	3865	Winter White	747	Sky Blue-VY LT
♂	746	Off White	955	Nile Green-LT
>	762	Pearl Gray-VY LT	828	Blue-UL VY LT
⦿	732	Olive Green	832	Golden Olive
⦿	3012	Khaki Green-MD	3052	Green Gray-MD
✚	989	Forest Green	3347	Yellow Green-MD
∴	369	Pistachio Green-VY LT	966	Baby Green-MD
○	645	Beaver Gray-VY DK	522	Fern Green
✚	3052	Green Gray-MD	522	Fern Green
☾	3815	Celadon Green-DK	562	Jade-MD
✚	3815	Celadon Green-DK	3362	Pine Green-DK
—	762	Pearl Gray-VY LT	747	Sky Blue-VY LT
∪	3364	Pine Green	3348	Yellow Green-LT
⊕	955	Nile Green-LT	3866	Mocha Brown-UL VY LT
✚	301	Mahogany-MD	920	Copper-MD
⦿	977	Golden Brown-LT	3853	Autumn Gold-DK
⦿	3853	Autumn Gold-DK	3854	Autumn Gold-MD
⦿	3854	Autumn Gold-MD	402	Mahogany-VY LT
□	3013	Khaki Green-LT	436	Tan
H	3778	Terra Cotta-LT	436	Tan

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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
221	Shell Pink-VY DK	11	4	10	3	9	3
300	Mahogany-VY DK	102	40	97	38	87	34
301	Mahogany-MD	79	31	75	29	68	26
320	Pistachio Green-MD	122	48	116	45	104	40
368	Pistachio Green-LT	213	83	202	79	182	71
369	Pistachio Green-VY LT	1213	477	1156	455	1040	409
371	Mustard	1345	529	1281	504	1152	453
402	Mahogany-VY LT	72	28	69	27	62	24
414	Steel Gray-DK	7	2	6	2	6	2
420	Hazelnut Brown-DK	129	50	123	48	111	43
436	Tan	104	40	99	38	89	35
437	Tan-LT	48	18	45	17	41	16
520	Fern Green-DK	108	42	103	40	93	36
522	Fern Green	987	388	940	370	846	333
523	Fern Green-LT	1721	677	1639	645	1475	580
524	Fern Green-VY LT	1733	682	1651	650	1486	585
562	Jade-MD	80	31	76	29	68	26
580	Moss Green-DK	372	146	354	139	319	125
613	Drab Brown-VY LT	818	322	779	306	701	275
642	Beige Gray-DK	534	210	508	200	457	179
644	Beige Gray-MD	1245	490	1186	466	1067	420
645	Beaver Gray-VY DK	209	82	199	78	179	70
677	Old Gold-VY LT	1864	733	1775	698	1598	629
680	Old Gold-DK	30	11	29	11	26	10
704	Chartreuse-BRT	354	139	337	132	303	119
712	Cream	220	86	209	82	188	74
722	Orange Spice-LT	37	14	35	13	32	12
732	Olive Green	424	166	404	159	364	143
733	Olive Green-MD	208	81	198	77	178	70
734	Olive Green-LT	404	159	385	151	347	136
746	Off White	2254	887	2147	845	1932	760
747	Sky Blue-VY LT	482	189	459	180	413	162
762	Pearl Gray-VY LT	294	115	280	110	252	99
772	Yellow Green-VY LT	2379	936	2265	891	2039	802
800	Delft Blue-Pale	8	3	7	2	7	2
828	Blue-UL VY LT	122	48	116	45	104	40
832	Golden Olive	375	147	357	140	321	126
833	Golden Olive-LT	272	107	259	101	233	91
834	Golden Olive-VY LT	559	220	532	209	479	188
920	Copper-MD	42	16	40	15	36	14
922	Copper-LT	48	18	46	18	41	16
927	Gray Green-LT	84	33	80	31	72	28
932	Antique Blue-LT	5	1	4	1	4	1
934	Black Avocado Green	17	6	16	6	15	5
937	Avocado Green-MD	88	34	84	33	76	29
938	Coffee Brown-UL DK	135	53	128	50	115	45
955	Nile Green-LT	2072	815	1973	776	1776	699
966	Baby Green-MD	877	345	835	328	751	295
975	Golden Brown-DK	128	50	122	48	110	43
976	Golden Brown-MD	42	16	40	15	36	14
977	Golden Brown-LT	31	12	30	11	27	10
989	Forest Green	127	50	120	47	108	42
3011	Khaki Green-DK	725	285	691	272	621	244
3012	Khaki Green-MD	868	341	827	325	744	292

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3013	Khaki Green-LT	1611	634	1534	603	1381	543
3021	Brown Gray-VY DK	280	110	267	105	240	94
3024	Brown Gray-VY LT	1327	522	1264	497	1137	447
3032	Mocha Brown-MD	313	123	298	117	268	105
3046	Yellow Beige-MD	1698	668	1618	637	1456	573
3051	Green Gray-DK	239	94	228	89	205	80
3052	Green Gray-MD	734	288	699	275	629	247
3078	Golden Yellow-VY LT	38	14	36	14	33	12
3346	Hunter Green	432	170	412	162	370	145
3347	Yellow Green-MD	780	307	743	292	668	262
3348	Yellow Green-LT	2155	848	2052	807	1847	727
3362	Pine Green-DK	381	150	363	142	327	128
3364	Pine Green	1230	484	1172	461	1054	414
3752	Antique Blue-VY LT	46	18	44	17	39	15
3756	Baby Blue-UL VY LT	728	286	693	272	624	245
3772	Desert Sand-VY DK	20	7	19	7	17	6
3776	Mahogany-LT	65	25	62	24	55	21
3778	Terra Cotta-LT	23	9	22	8	20	7
3781	Mocha Brown-DK	267	105	255	100	229	90
3787	Brown Gray-DK	88	34	84	33	76	29
3802	Antique Mauve-VY DK	5	1	5	1	4	1
3813	Blue Green-LT	109	42	104	40	94	37
3815	Celadon Green-DK	108	42	103	40	93	36
3816	Celadon Green-MD	38	14	36	14	33	12
3823	Yellow-UL Pale	856	337	815	320	733	288
3825	Pumpkin-Pale	7	2	6	2	6	2
3826	Golden Brown	91	35	87	34	78	30
3827	Golden Brown-Pale	26	10	25	9	22	8
3829	Old Gold-VY DK	122	48	116	45	104	40
3853	Autumn Gold-DK	25	9	23	9	21	8
3854	Autumn Gold-MD	30	11	29	11	26	10
3856	Mahogany-UL VY LT	31	12	30	11	27	10
3858	Rosewood-MD	14	5	13	5	12	4
3865	Winter White	661	260	630	248	567	223
3866	Mocha Brown-UL VY LT	1772	697	1688	664	1519	598
ecru	Ecru	398	156	379	149	341	134

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	16	5	14	5	7	2
300	Mahogany-VY DK	157	61	131	51	65	26
301	Mahogany-MD	122	47	102	39	51	20
320	Pistachio Green-MD	187	72	156	60	78	30
368	Pistachio Green-LT	328	128	273	107	137	53
369	Pistachio Green-VY LT	1872	736	1560	614	780	307
371	Mustard	2074	815	1728	680	864	340
402	Mahogany-VY LT	112	43	93	36	47	18
414	Steel Gray-DK	11	4	9	3	5	2
420	Hazelnut Brown-DK	200	77	167	65	83	32
436	Tan	160	63	134	53	67	26
437	Tan-LT	74	29	62	24	31	12
520	Fern Green-DK	167	65	140	54	70	27
522	Fern Green	1523	599	1269	500	635	250
523	Fern Green-LT	2655	1044	2213	870	1106	435
524	Fern Green-VY LT	2675	1053	2229	878	1115	439

562	Jade-MD	122	47	102	39	51	20
580	Moss Green-DK	574	225	479	188	239	94
613	Drab Brown-VY LT	1262	495	1052	413	526	206
642	Beige Gray-DK	823	322	686	269	343	134
644	Beige Gray-MD	1921	756	1601	630	800	315
645	Beaver Gray-VY DK	322	126	269	105	134	53
677	Old Gold-VY LT	2876	1132	2397	944	1199	472
680	Old Gold-DK	47	18	39	15	20	8
704	Chartreuse-BRT	545	214	455	179	227	89
712	Cream	338	133	282	111	141	56
722	Orange Spice-LT	58	22	48	18	24	9
732	Olive Green	655	257	546	215	273	107
733	Olive Green-MD	320	126	267	105	134	53
734	Olive Green-LT	625	245	521	204	260	102
746	Off White	3478	1368	2898	1140	1449	570
747	Sky Blue-VY LT	743	292	620	243	310	122
762	Pearl Gray-VY LT	454	178	378	149	189	74
772	Yellow Green-VY LT	3670	1444	3059	1203	1529	602
800	Delft Blue-Pale	13	4	11	3	5	2
828	Blue-UL VY LT	187	72	156	60	78	30
832	Golden Olive	578	227	482	189	241	95
833	Golden Olive-LT	419	164	350	137	175	68
834	Golden Olive-VY LT	862	338	719	282	359	141
920	Copper-MD	65	25	54	21	27	11
922	Copper-LT	74	29	62	24	31	12
927	Gray Green-LT	130	50	108	42	54	21
932	Antique Blue-LT	7	2	6	2	3	1
934	Black Avocado Green	27	9	23	8	11	4
937	Avocado Green-MD	137	52	114	44	57	22
938	Coffee Brown-UL DK	207	81	173	68	86	34
955	Nile Green-LT	3197	1258	2664	1049	1332	524
966	Baby Green-MD	1352	531	1127	443	563	221
975	Golden Brown-DK	198	77	165	65	83	32
976	Golden Brown-MD	65	25	54	21	27	11
977	Golden Brown-LT	49	18	41	15	20	8
989	Forest Green	194	76	162	63	81	32
3011	Khaki Green-DK	1118	439	932	366	466	183
3012	Khaki Green-MD	1339	526	1116	438	558	219
3013	Khaki Green-LT	2486	977	2072	815	1036	407
3021	Brown Gray-VY DK	432	169	360	141	180	71
3024	Brown Gray-VY LT	2047	805	1706	671	853	335
3032	Mocha Brown-MD	482	189	402	158	201	79
3046	Yellow Beige-MD	2621	1031	2184	860	1092	430
3051	Green Gray-DK	369	144	308	120	154	60
3052	Green Gray-MD	1132	445	944	371	472	185
3078	Golden Yellow-VY LT	59	22	50	18	25	9
3346	Hunter Green	666	261	555	218	278	109
3347	Yellow Green-MD	1202	472	1002	393	501	197
3348	Yellow Green-LT	3325	1309	2771	1091	1385	545
3362	Pine Green-DK	589	230	491	192	245	96
3364	Pine Green	1897	745	1581	621	791	311
3752	Antique Blue-VY LT	70	27	59	23	29	11
3756	Baby Blue-UL VY LT	1123	441	936	368	468	184
3772	Desert Sand-VY DK	31	11	26	9	13	5
3776	Mahogany-LT	99	38	83	32	41	16
3778	Terra Cotta-LT	36	13	30	11	15	5
3781	Mocha Brown-DK	412	162	344	135	172	68
3787	Brown Gray-DK	137	52	114	44	57	22
3802	Antique Mauve-VY DK	7	2	6	2	3	1

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3813	Blue Green-LT	169	67	141	56	71	28
3815	Celadon Green-DK	167	65	140	54	70	27
3816	Celadon Green-MD	59	22	50	18	25	9
3823	Yellow-UL Pale	1319	518	1100	432	550	216
3825	Pumpkin-Pale	11	4	9	3	5	2
3826	Golden Brown	140	54	117	45	59	23
3827	Golden Brown-Pale	40	14	33	12	17	6
3829	Old Gold-VY DK	187	72	156	60	78	30
3853	Autumn Gold-DK	38	14	32	12	16	6
3854	Autumn Gold-MD	47	18	39	15	20	8
3856	Mahogany-UL VY LT	49	18	41	15	20	8
3858	Rosewood-MD	22	7	18	6	9	3
3865	Winter White	1021	401	851	335	425	167
3866	Mocha Brown-UL VY LT	2734	1076	2279	897	1139	449
ecru	Ecru	614	241	512	201	256	101

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	6	2	6	2	6	2
300	Mahogany-VY DK	63	24	60	24	58	23
301	Mahogany-MD	49	19	47	18	45	17
320	Pistachio Green-MD	75	29	72	28	69	27
368	Pistachio Green-LT	131	51	126	49	121	47
369	Pistachio Green-VY LT	749	294	720	283	693	273
371	Mustard	829	326	798	314	768	302
402	Mahogany-VY LT	45	17	43	17	41	16
414	Steel Gray-DK	4	1	4	1	4	1
420	Hazelnut Brown-DK	80	31	77	30	74	29
436	Tan	64	25	62	24	59	23
437	Tan-LT	30	12	28	11	27	11
520	Fern Green-DK	67	26	64	25	62	24
522	Fern Green	609	240	586	231	564	222
523	Fern Green-LT	1062	418	1021	402	983	387
524	Fern Green-VY LT	1070	421	1029	405	991	390
562	Jade-MD	49	19	47	18	45	17
580	Moss Green-DK	230	90	221	87	213	83
613	Drab Brown-VY LT	505	198	485	190	467	183
642	Beige Gray-DK	329	129	316	124	305	119
644	Beige Gray-MD	768	302	739	291	711	280
645	Beaver Gray-VY DK	129	50	124	48	119	47
677	Old Gold-VY LT	1151	453	1106	435	1065	419
680	Old Gold-DK	19	7	18	7	17	7
704	Chartreuse-BRT	218	86	210	82	202	79
712	Cream	135	53	130	51	125	49
722	Orange Spice-LT	23	9	22	8	21	8
732	Olive Green	262	103	252	99	243	95
733	Olive Green-MD	128	50	123	48	119	47
734	Olive Green-LT	250	98	240	94	231	91
746	Off White	1391	547	1338	526	1288	507
747	Sky Blue-VY LT	297	117	286	112	275	108
762	Pearl Gray-VY LT	181	71	174	69	168	66
772	Yellow Green-VY LT	1468	577	1412	555	1359	535
800	Delft Blue-Pale	5	1	5	1	5	1
828	Blue-UL VY LT	75	29	72	28	69	27
832	Golden Olive	231	91	222	87	214	84

833	Golden Olive-LT	168	66	161	63	155	61
834	Golden Olive-VY LT	345	135	332	130	319	125
920	Copper-MD	26	10	25	10	24	9
922	Copper-LT	30	12	28	11	27	11
927	Gray Green-LT	52	20	50	19	48	19
932	Antique Blue-LT	3	1	3	1	3	1
934	Black Avocado Green	11	4	10	3	10	3
937	Avocado Green-MD	55	21	53	20	51	19
938	Coffee Brown-UL DK	83	32	80	31	77	30
955	Nile Green-LT	1279	503	1230	484	1184	466
966	Baby Green-MD	541	212	520	204	501	197
975	Golden Brown-DK	79	31	76	30	73	29
976	Golden Brown-MD	26	10	25	10	24	9
977	Golden Brown-LT	19	7	19	7	18	7
989	Forest Green	78	30	75	29	72	28
3011	Khaki Green-DK	447	176	430	169	414	163
3012	Khaki Green-MD	536	210	515	202	496	195
3013	Khaki Green-LT	994	391	956	376	921	362
3021	Brown Gray-VY DK	173	68	166	65	160	63
3024	Brown Gray-VY LT	819	322	787	309	758	298
3032	Mocha Brown-MD	193	76	186	73	179	70
3046	Yellow Beige-MD	1048	413	1008	397	971	382
3051	Green Gray-DK	148	58	142	55	137	53
3052	Green Gray-MD	453	178	435	171	419	165
3078	Golden Yellow-VY LT	24	9	23	8	22	8
3346	Hunter Green	266	104	256	100	247	97
3347	Yellow Green-MD	481	189	462	181	445	175
3348	Yellow Green-LT	1330	523	1279	503	1231	485
3362	Pine Green-DK	235	92	226	89	218	85
3364	Pine Green	759	298	730	287	703	276
3752	Antique Blue-VY LT	28	11	27	10	26	10
3756	Baby Blue-UL VY LT	449	176	432	170	416	163
3772	Desert Sand-VY DK	12	4	12	4	11	4
3776	Mahogany-LT	40	15	38	15	37	14
3778	Terra Cotta-LT	14	5	14	5	13	5
3781	Mocha Brown-DK	165	65	159	62	153	60
3787	Brown Gray-DK	55	21	53	20	51	19
3802	Antique Mauve-VY DK	3	1	3	1	3	1
3813	Blue Green-LT	68	27	65	26	63	25
3815	Celadon Green-DK	67	26	64	25	62	24
3816	Celadon Green-MD	24	9	23	8	22	8
3823	Yellow-UL Pale	528	207	507	199	489	192
3825	Pumpkin-Pale	4	1	4	1	4	1
3826	Golden Brown	56	22	54	21	52	20
3827	Golden Brown-Pale	16	6	15	6	15	5
3829	Old Gold-VY DK	75	29	72	28	69	27
3853	Autumn Gold-DK	15	6	15	6	14	5
3854	Autumn Gold-MD	19	7	18	7	17	7
3856	Mahogany-UL VY LT	19	7	19	7	18	7
3858	Rosewood-MD	9	3	8	3	8	3
3865	Winter White	408	161	393	154	378	149
3866	Mocha Brown-UL VY LT	1094	431	1052	414	1013	399
ecru	Ecrú	246	96	236	93	227	89

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	

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221	Shell Pink-VY DK	6	2	5	2	5	2
300	Mahogany-VY DK	56	22	52	20	49	19
301	Mahogany-MD	44	17	41	16	38	15
320	Pistachio Green-MD	67	26	62	24	59	23
368	Pistachio Green-LT	117	46	109	43	102	40
369	Pistachio Green-VY LT	669	263	624	245	585	230
371	Mustard	741	291	691	272	648	255
402	Mahogany-VY LT	40	15	37	14	35	14
414	Steel Gray-DK	4	1	4	1	3	1
420	Hazelnut Brown-DK	71	28	67	26	62	24
436	Tan	57	23	53	21	50	20
437	Tan-LT	26	10	25	10	23	9
520	Fern Green-DK	60	23	56	22	52	20
522	Fern Green	544	214	508	200	476	187
523	Fern Green-LT	948	373	885	348	830	326
524	Fern Green-VY LT	955	376	892	351	836	329
562	Jade-MD	44	17	41	16	38	15
580	Moss Green-DK	205	80	191	75	179	70
613	Drab Brown-VY LT	451	177	421	165	394	155
642	Beige Gray-DK	294	115	274	107	257	101
644	Beige Gray-MD	686	270	640	252	600	236
645	Beaver Gray-VY DK	115	45	107	42	101	39
677	Old Gold-VY LT	1027	404	959	377	899	354
680	Old Gold-DK	17	6	16	6	15	6
704	Chartreuse-BRT	195	77	182	71	170	67
712	Cream	121	48	113	44	106	42
722	Orange Spice-LT	21	8	19	7	18	7
732	Olive Green	234	92	218	86	205	80
733	Olive Green-MD	114	45	107	42	100	39
734	Olive Green-LT	223	87	208	82	195	77
746	Off White	1242	489	1159	456	1087	428
747	Sky Blue-VY LT	266	104	248	97	232	91
762	Pearl Gray-VY LT	162	64	151	59	142	56
772	Yellow Green-VY LT	1311	516	1223	481	1147	451
800	Delft Blue-Pale	5	1	4	1	4	1
828	Blue-UL VY LT	67	26	62	24	59	23
832	Golden Olive	206	81	193	76	181	71
833	Golden Olive-LT	150	59	140	55	131	51
834	Golden Olive-VY LT	308	121	287	113	269	106
920	Copper-MD	23	9	22	8	20	8
922	Copper-LT	26	10	25	10	23	9
927	Gray Green-LT	46	18	43	17	41	16
932	Antique Blue-LT	3	1	2	1	2	1
934	Black Avocado Green	10	3	9	3	8	3
937	Avocado Green-MD	49	19	46	17	43	16
938	Coffee Brown-UL DK	74	29	69	27	65	25
955	Nile Green-LT	1142	449	1066	419	999	393
966	Baby Green-MD	483	190	451	177	422	166
975	Golden Brown-DK	71	28	66	26	62	24
976	Golden Brown-MD	23	9	22	8	20	8
977	Golden Brown-LT	17	6	16	6	15	6
989	Forest Green	69	27	65	25	61	24
3011	Khaki Green-DK	399	157	373	146	349	137
3012	Khaki Green-MD	478	188	446	175	419	164
3013	Khaki Green-LT	888	349	829	326	777	305
3021	Brown Gray-VY DK	154	60	144	56	135	53
3024	Brown Gray-VY LT	731	287	682	268	640	251
3032	Mocha Brown-MD	172	68	161	63	151	59
3046	Yellow Beige-MD	936	368	874	344	819	322

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3051	Green Gray-DK	132	51	123	48	115	45
3052	Green Gray-MD	404	159	377	148	354	139
3078	Golden Yellow-VY LT	21	8	20	7	19	7
3346	Hunter Green	238	93	222	87	208	82
3347	Yellow Green-MD	429	168	401	157	376	147
3348	Yellow Green-LT	1187	467	1108	436	1039	409
3362	Pine Green-DK	210	82	196	77	184	72
3364	Pine Green	678	266	632	248	593	233
3752	Antique Blue-VY LT	25	10	23	9	22	8
3756	Baby Blue-UL VY LT	401	158	374	147	351	138
3772	Desert Sand-VY DK	11	4	10	4	10	3
3776	Mahogany-LT	35	14	33	13	31	12
3778	Terra Cotta-LT	13	5	12	4	11	4
3781	Mocha Brown-DK	147	58	137	54	129	51
3787	Brown Gray-DK	49	19	46	17	43	16
3802	Antique Mauve-VY DK	3	1	2	1	2	1
3813	Blue Green-LT	60	24	56	22	53	21
3815	Celadon Green-DK	60	23	56	22	52	20
3816	Celadon Green-MD	21	8	20	7	19	7
3823	Yellow-UL Pale	471	185	440	173	412	162
3825	Pumpkin-Pale	4	1	4	1	3	1
3826	Golden Brown	50	19	47	18	44	17
3827	Golden Brown-Pale	14	5	13	5	12	5
3829	Old Gold-VY DK	67	26	62	24	59	23
3853	Autumn Gold-DK	14	5	13	5	12	5
3854	Autumn Gold-MD	17	6	16	6	15	6
3856	Mahogany-UL VY LT	17	6	16	6	15	6
3858	Rosewood-MD	8	3	7	2	7	2
3865	Winter White	365	143	340	134	319	125
3866	Mocha Brown-UL VY LT	977	384	911	359	854	336
ecru	Ecru	219	86	205	80	192	75

(8)

(9)

	110	120	130	140	150	160
10
20
30
40
50
60
70
80

[illegible]

$$(11) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

[illegible]

[illegible]

[illegible]

[illegible]

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

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

[illegible]

	10	20	30	40	50
160	160	160	160	160	160
170	170	170	170	170	170
180	180	180	180	180	180
190	190	190	190	190	190
200	200	200	200	200	200
210	210	210	210	210	210
220	220	220	220	220	220
230	230	230	230	230	230

[illegible]

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

$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

$$(23) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (24)$$

[illegible]

	10										20										30										40										50										
240	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
250	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																																			

[illegible]

[illegible]

$$(28) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (29)$$

	220										230										240										250										260										270									

	270	280	290	300	310	320
240	⊙	⊙	⊙	⊙	⊙	⊙
241	⊙	⊙	⊙	⊙	⊙	⊙
242	⊙	⊙	⊙	⊙	⊙	⊙
243	⊙	⊙	⊙	⊙	⊙	⊙
244	⊙	⊙	⊙	⊙	⊙	⊙
245	⊙	⊙	⊙	⊙	⊙	⊙
246	⊙	⊙	⊙	⊙	⊙	⊙
247	⊙	⊙	⊙	⊙	⊙	⊙
248	⊙	⊙	⊙	⊙	⊙	⊙
249	⊙	⊙	⊙	⊙	⊙	⊙
250	⊙	⊙	⊙	⊙	⊙	⊙
251	⊙	⊙	⊙	⊙	⊙	⊙
252	⊙	⊙	⊙	⊙	⊙	⊙
253	⊙	⊙	⊙	⊙	⊙	⊙
254	⊙	⊙	⊙	⊙	⊙	⊙
255	⊙	⊙	⊙	⊙	⊙	⊙
256	⊙	⊙	⊙	⊙	⊙	⊙
257	⊙	⊙	⊙	⊙	⊙	⊙
258	⊙	⊙	⊙	⊙	⊙	⊙
259	⊙	⊙	⊙	⊙	⊙	⊙
260	⊙	⊙	⊙	⊙	⊙	⊙
261	⊙	⊙	⊙	⊙	⊙	⊙
262	⊙	⊙	⊙	⊙	⊙	⊙
263	⊙	⊙	⊙	⊙	⊙	⊙
264	⊙	⊙	⊙	⊙	⊙	⊙
265	⊙	⊙	⊙	⊙	⊙	⊙
266	⊙	⊙	⊙	⊙	⊙	⊙
267	⊙	⊙	⊙	⊙	⊙	⊙
268	⊙	⊙	⊙	⊙	⊙	⊙
269	⊙	⊙	⊙	⊙	⊙	⊙
270	⊙	⊙	⊙	⊙	⊙	⊙
271	⊙	⊙	⊙	⊙	⊙	⊙
272	⊙	⊙	⊙	⊙	⊙	⊙
273	⊙	⊙	⊙	⊙	⊙	⊙
274	⊙	⊙	⊙	⊙	⊙	⊙
275	⊙	⊙	⊙	⊙	⊙	⊙
276	⊙	⊙	⊙	⊙	⊙	⊙
277	⊙	⊙	⊙	⊙	⊙	⊙
278	⊙	⊙	⊙	⊙	⊙	⊙
279	⊙	⊙	⊙	⊙	⊙	⊙
280	⊙	⊙	⊙	⊙	⊙	⊙
281	⊙	⊙	⊙	⊙	⊙	⊙
282	⊙	⊙	⊙	⊙	⊙	⊙
283	⊙	⊙	⊙	⊙	⊙	⊙
284	⊙	⊙	⊙	⊙	⊙	⊙
285	⊙	⊙	⊙	⊙	⊙	⊙
286	⊙	⊙	⊙	⊙	⊙	⊙
287	⊙	⊙	⊙	⊙	⊙	⊙
288	⊙	⊙	⊙	⊙	⊙	⊙
289	⊙	⊙	⊙	⊙	⊙	⊙
290	⊙	⊙	⊙	⊙	⊙	⊙
291	⊙	⊙	⊙	⊙	⊙	⊙
292	⊙	⊙	⊙	⊙	⊙	⊙
293	⊙	⊙	⊙	⊙	⊙	⊙
294	⊙	⊙	⊙	⊙	⊙	⊙
295	⊙	⊙	⊙	⊙	⊙	⊙
296	⊙	⊙	⊙	⊙	⊙	⊙
297	⊙	⊙	⊙	⊙	⊙	⊙
298	⊙	⊙	⊙	⊙	⊙	⊙
299	⊙	⊙	⊙	⊙	⊙	⊙
300	⊙	⊙	⊙	⊙	⊙	⊙
301	⊙	⊙	⊙	⊙	⊙	⊙
302	⊙	⊙	⊙	⊙	⊙	⊙
303	⊙	⊙	⊙	⊙	⊙	⊙
304	⊙	⊙	⊙	⊙	⊙	⊙
305	⊙	⊙	⊙	⊙	⊙	⊙
306	⊙	⊙	⊙	⊙	⊙	⊙
307	⊙	⊙	⊙	⊙	⊙	⊙
308	⊙	⊙	⊙	⊙	⊙	⊙
309	⊙	⊙	⊙	⊙	⊙	⊙
310	⊙	⊙	⊙	⊙	⊙	⊙
311	⊙	⊙	⊙	⊙	⊙	⊙
312	⊙	⊙	⊙	⊙	⊙	⊙
313	⊙	⊙	⊙	⊙	⊙	⊙
314	⊙	⊙	⊙	⊙	⊙	⊙
315	⊙	⊙	⊙	⊙	⊙	⊙
316	⊙	⊙	⊙	⊙	⊙	⊙
317	⊙	⊙	⊙	⊙	⊙	⊙
318	⊙	⊙	⊙	⊙	⊙	⊙
319	⊙	⊙	⊙	⊙	⊙	⊙
320	⊙	⊙	⊙	⊙	⊙	⊙

[illegible]

(33)

	110	120	130	140	150	160
310	♂	♂	♂	♂	♂	♂
320	♂	♂	♂	♂	♂	♂
330	♂	♂	♂	♂	♂	♂
340	♂	♂	♂	♂	♂	♂
350	♂	♂	♂	♂	♂	♂
360	♂	♂	♂	♂	♂	♂
370	♂	♂	♂	♂	♂	♂
380	♂	♂	♂	♂	♂	♂

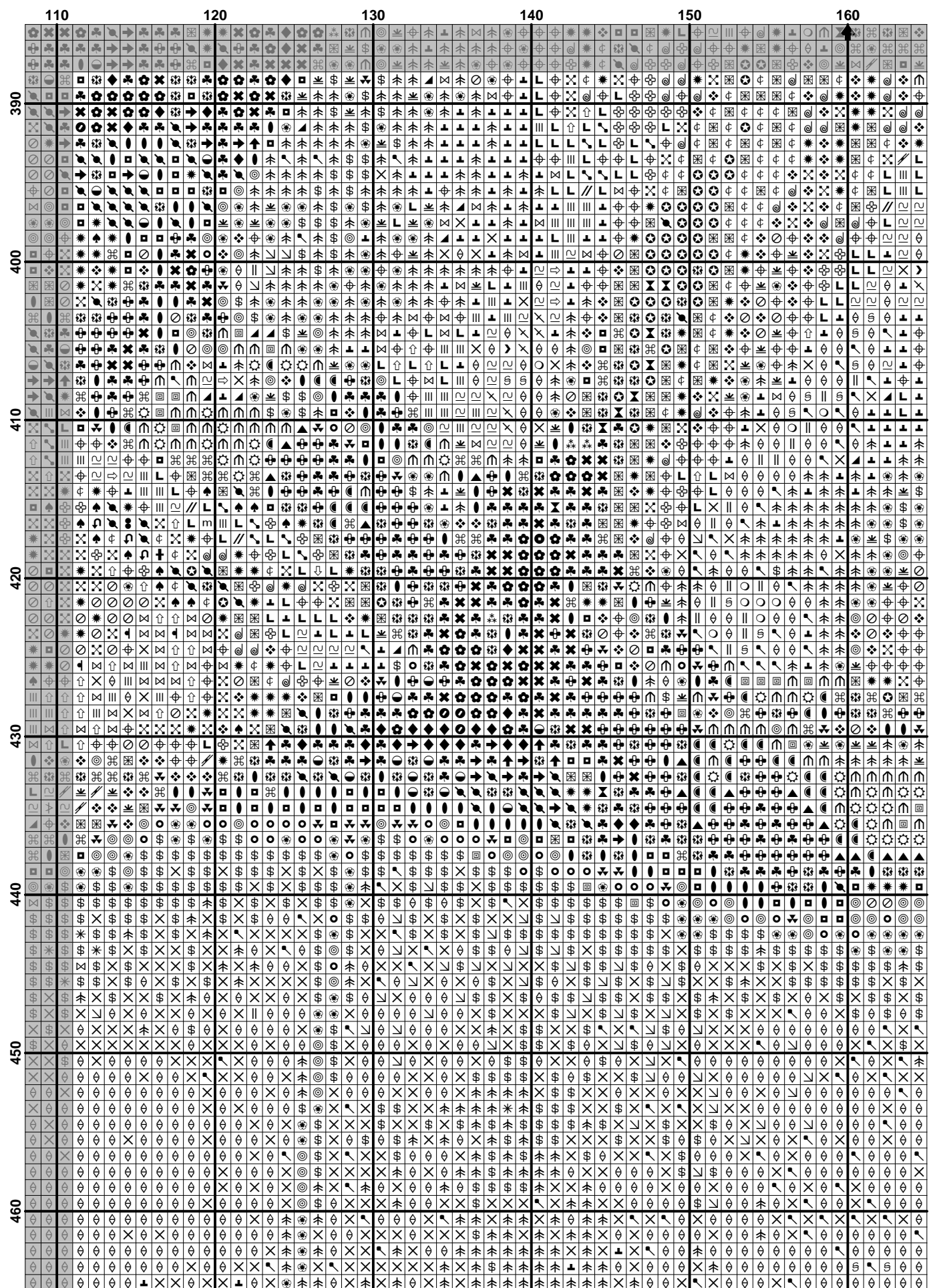
$$(34) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

$$(35) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

(36)

$$(37) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

	60	70	80	90	100	110
390	o	-	o	+	+	+
391	o	o	o	o	o	o
392	o	o	o	o	o	o
393	o	o	o	o	o	o
394	o	o	o	o	o	o
395	o	o	o	o	o	o
396	o	o	o	o	o	o
397	o	o	o	o	o	o
398	o	o	o	o	o	o
399	o	o	o	o	o	o
400	o	o	o	o	o	o
401	o	o	o	o	o	o
402	o	o	o	o	o	o
403	o	o	o	o	o	o
404	o	o	o	o	o	o
405	o	o	o	o	o	o
406	o	o	o	o	o	o
407	o	o	o	o	o	o
408	o	o	o	o	o	o
409	o	o	o	o	o	o
410	o	o	o	o	o	o
411	o	o	o	o	o	o
412	o	o	o	o	o	o
413	o	o	o	o	o	o
414	o	o	o	o	o	o
415	o	o	o	o	o	o
416	o	o	o	o	o	o
417	o	o	o	o	o	o
418	o	o	o	o	o	o
419	o	o	o	o	o	o
420	o	o	o	o	o	o
421	o	o	o	o	o	o
422	o	o	o	o	o	o
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424	o	o	o	o	o	o
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451	o	o	o	o	o	o
452	o	o	o	o	o	o
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454	o	o	o	o	o	o
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456	o	o	o	o	o	o
457	o	o	o	o	o	o
458	o	o	o	o	o	o
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460	o	o	o	o	o	o
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464	o	o	o	o	o	o
465	o	o	o	o	o	o
466	o	o	o	o	o	o
467	o	o	o	o	o	o
468	o	o	o	o	o	o
469	o	o	o	o	o	o
470	o	o	o	o	o	o
471	o	o	o	o	o	o
472	o	o	o	o	o	o
473	o	o	o	o	o	o
474	o	o	o	o	o	o
475	o	o	o	o	o	o
476	o	o	o	o	o	o
477	o	o	o	o	o	o
478	o	o	o	o	o	o
479	o	o	o	o	o	o
480	o	o	o	o	o	o
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483	o	o	o	o	o	o
484	o	o	o	o	o	o
485	o	o	o	o	o	o
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487	o	o	o	o	o	o
488	o	o	o	o	o	o
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493	o	o	o	o	o	o
494	o	o	o	o	o	o
495	o	o	o	o	o	o
496	o	o	o	o	o	o
497	o	o	o	o	o	o
498	o	o	o	o	o	o
499	o	o	o	o	o	o
500	o	o	o	o	o	o



[illegible]

	220	230	240	250	260	270
390
400
410
420
430
440
450
460

	270	280	290	300	310	320
390
400
410
420
430
440
450
460

[illegible]

[illegible]

[illegible]

470

480

	220										230										240										250										260										270									
470																																																												
																					</																																							

	270										280										290										300										310										320									
470																																																												
480																																																												