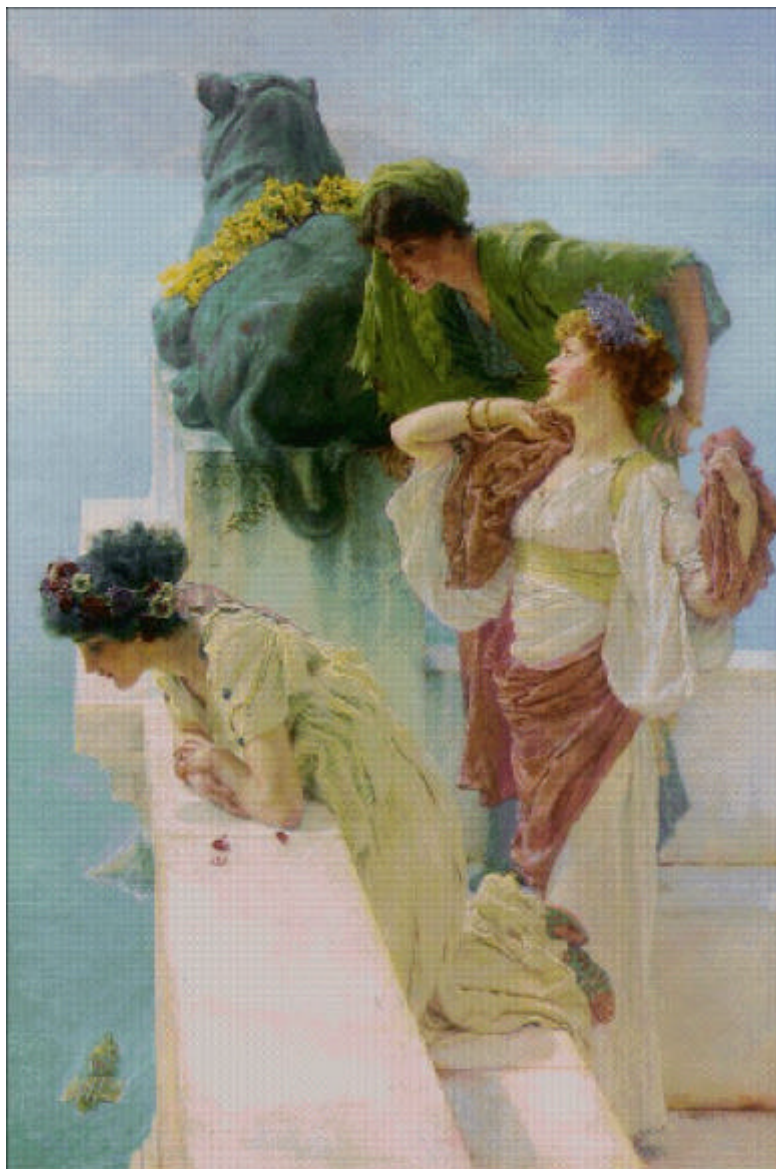


247 A Coign of Vantage



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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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A Coign of Vantage

Stitch Count	
Horizontal:	299
Vertical:	448

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:	54	21.21	82	31.98	48	18.56	72	27.98	42	16.5	64	24.875
Including Margins:	70	28	98	38	64	25	88	34	58	23	80	31
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	75	29.69	114	44.77	63	24.74	95	37.31	31	12.37	47	18.65
Including Margins:	91	36	130	51	79	31	111	44	47	19	63	25
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	30	11.87	45	17.9	29	11.42	44	17.22	28	10.99	42	16.58
Including Margins:	46	18	61	24	45	18	60	24	44	17	58	23
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	27	10.6	41	15.99	25	9.89	38	14.92	23	9.27	35	13.99
Including Margins:	43	17	57	22	41	16	54	21	39	16	51	20

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
◊	223	Shell Pink-LT
◊	224	Shell Pink-VY LT
∨	307	Lemon
⊕	317	Pewter Gray
⇐	318	Steel Gray-LT
⊗	340	Blue Violet-MD
◎	371	Mustard
↖	407	Desert Sand-DK
*	414	Steel Gray-DK
☆	415	Pearl Gray
↓	433	Brown-MD
➔	434	Brown-LT
×	436	Tan
>	445	Lemon-LT
▲	452	Shell Gray-MD
✦	470	Avocado Green-LT
↑	472	Avocado Green-UL LT
■	500	Blue Green-VY DK
✕	502	Blue Green
⊗	503	Blue Green-MD
♣	520	Fern Green-DK
⊗	523	Fern Green-LT
∞	543	Beige Brown-UL VY LT
⋈	564	Jade-VY LT
↓	580	Moss Green-DK
♠	581	Moss Green
↻	598	Turquoise-LT
m	613	Drab Brown-VY LT
♣	632	Desert Sand-UL VY DK
	644	Beige Gray-MD
—	677	Old Gold-VY LT
⊕	733	Olive Green-MD
∨	738	Tan-VY LT
+	739	Tan-UL VY LT
↻	747	Sky Blue-VY LT
⋈	754	Peach-LT
::	762	Pearl Gray-VY LT

/	775	Baby Blue-VY LT
z	778	Antique Mauve-VY LT
«	819	Baby Pink-LT
√	822	Beige Gray-LT
■	823	Navy Blue-DK
≡	827	Blue-VY LT
●	895	Hunter Green-VY DK
⊕	924	Gray Green--VY DK
⊗	926	Gray Green-MD
\$	927	Gray Green-LT
⑧	938	Coffee Brown-UL DK
u	948	Peach-VY LT
9	964	Sea Green-LT
★	993	Aquamarine-LT
z	3024	Brown Gray-VY LT
✦	3041	Antique Violet-MD
■	3052	Green Gray-MD
(3078	Golden Yellow-VY LT
●	3346	Hunter Green
⊕	3347	Yellow Green-MD
⊗	3364	Pine Green
e	3713	Salmon-VY LT
▲	3726	Antique Mauve-DK
▲	3727	Antique Mauve-LT
⋈	3755	Baby Blue
L	3756	Baby Blue-UL VY LT
‡	3761	Sky Blue-LT
←	3768	Gray Green-DK
⊕	3778	Terra Cotta-LT
●	3799	Pewter Gray-VY DK
↘	3815	Celadon Green-DK
5	3819	Moss Green-LT
∩	3820	Straw-DK
1	3823	Yellow-UL Pale
♦	3836	Grape-LT
♣	3841	Baby Blue-Pale
✿	3860	Cocoa
❖	3861	Cocoa-LT
⋈	3862	Mocha Beige-DK
#	3864	Mocha Beige-LT

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

Symbol	DMC1	Name1	DMC2	Name2
⦿	3740	Antique Violet-DK	317	Pewter Gray
⦿	935	Avocado Green-DK	520	Fern Green-DK
✱	3346	Hunter Green	3347	Yellow Green-MD
^	762	Pearl Gray-VY LT	3756	Baby Blue-UL VY LT
•	3865	Winter White	819	Baby Pink-LT
+	926	Gray Green-MD	3768	Gray Green-DK
↖	738	Tan-VY LT	3778	Terra Cotta-LT
⊙	414	Steel Gray-DK	318	Steel Gray-LT
+	3787	Brown Gray-DK	3346	Hunter Green
☿	3860	Cocoa	3052	Green Gray-MD
+	3859	Rosewood-LT	3860	Cocoa
⦿	3768	Gray Green-DK	3815	Celadon Green-DK
⊙	503	Blue Green-MD	414	Steel Gray-DK
↓	3778	Terra Cotta-LT	3013	Khaki Green-LT
:	3865	Winter White	747	Sky Blue-VY LT
)	819	Baby Pink-LT	543	Beige Brown-UL VY LT
3	738	Tan-VY LT	445	Lemon-LT
☿	580	Moss Green-DK	581	Moss Green
⦿	3772	Desert Sand-VY DK	436	Tan
▲	926	Gray Green-MD	317	Pewter Gray
=	762	Pearl Gray-VY LT	3841	Baby Blue-Pale
↑	415	Pearl Gray	3841	Baby Blue-Pale
c	3841	Baby Blue-Pale	747	Sky Blue-VY LT
○	3840	Lavender Blue-LT	3841	Baby Blue-Pale
5	762	Pearl Gray-VY LT	415	Pearl Gray
⊕	503	Blue Green-MD	993	Aquamarine-LT
✱	927	Gray Green-LT	993	Aquamarine-LT
L	927	Gray Green-LT	598	Turquoise-LT
//	927	Gray Green-LT	955	Nile Green-LT
⊙	926	Gray Green-MD	502	Blue Green
✱	3768	Gray Green-DK	924	Gray Green--VY DK
☿	3768	Gray Green-DK	502	Blue Green
⊙	733	Olive Green-MD	3819	Moss Green-LT
⇒	3819	Moss Green-LT	3347	Yellow Green-MD
✱	580	Moss Green-DK	434	Brown-LT
♥	924	Gray Green--VY DK	520	Fern Green-DK
☿	3364	Pine Green	3347	Yellow Green-MD
/	3348	Yellow Green-LT	3364	Pine Green
↑	3787	Brown Gray-DK	433	Brown-MD
⦿	938	Coffee Brown-UL DK	433	Brown-MD
☿	3772	Desert Sand-VY DK	3862	Mocha Beige-DK
▼	3772	Desert Sand-VY DK	434	Brown-LT
☿	434	Brown-LT	733	Olive Green-MD
☿	434	Brown-LT	436	Tan
•	371	Mustard	436	Tan
☿	433	Brown-MD	434	Brown-LT
☿	371	Mustard	3859	Rosewood-LT
☿	433	Brown-MD	3721	Shell Pink-DK
☿	3862	Mocha Beige-DK	3721	Shell Pink-DK
☿	733	Olive Green-MD	436	Tan
▶	434	Brown-LT	3778	Terra Cotta-LT
☿	739	Tan-UL VY LT	3013	Khaki Green-LT
☿	372	Mustard-LT	407	Desert Sand-DK

✱	936	Avocado Green-VY DK	469	Avocado Green
☐	898	Coffee Brown-VY DK	869	Hazelnut Brown-VY DK
◦	317	Pewter Gray	318	Steel Gray-LT
◆	3799	Pewter Gray-VY DK	317	Pewter Gray
♣	754	Peach-LT	738	Tan-VY LT
✂	3820	Straw-DK	436	Tan
田	436	Tan	3013	Khaki Green-LT
田	436	Tan	3819	Moss Green-LT
٪	3013	Khaki Green-LT	738	Tan-VY LT
♣	436	Tan	472	Avocado Green-UL LT
III	754	Peach-LT	3778	Terra Cotta-LT
◇	738	Tan-VY LT	472	Avocado Green-UL LT
☐	433	Brown-MD	3772	Desert Sand-VY DK
✂	523	Fern Green-LT	739	Tan-UL VY LT
♣	644	Beige Gray-MD	564	Jade-VY LT
☐	3364	Pine Green	502	Blue Green
τ	955	Nile Green-LT	644	Beige Gray-MD
♣	644	Beige Gray-MD	927	Gray Green-LT
=	371	Mustard	372	Mustard-LT
Q	543	Beige Brown-UL VY LT	778	Antique Mauve-VY LT
×	415	Pearl Gray	754	Peach-LT
♣	955	Nile Green-LT	3024	Brown Gray-VY LT
›	677	Old Gold-VY LT	3013	Khaki Green-LT
4	523	Fern Green-LT	677	Old Gold-VY LT
×	993	Aquamarine-LT	598	Turquoise-LT
♣	733	Olive Green-MD	3772	Desert Sand-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	
223	Shell Pink-LT	153	60	146	57	131	51
224	Shell Pink-VY LT	55	21	53	20	47	18
307	Lemon	34	13	33	12	29	11
317	Pewter Gray	125	49	119	46	107	42
318	Steel Gray-LT	114	44	109	42	98	38
340	Blue Violet-MD	8	3	7	2	7	2
371	Mustard	290	114	276	108	248	97
372	Mustard-LT	120	47	114	44	103	40
407	Desert Sand-DK	271	106	258	101	232	91
414	Steel Gray-DK	207	81	197	77	177	69
415	Pearl Gray	678	266	645	253	581	228
433	Brown-MD	177	69	168	66	151	59
434	Brown-LT	250	98	238	93	214	84
436	Tan	283	111	269	105	242	95
445	Lemon-LT	81	31	77	30	70	27
452	Shell Gray-MD	143	56	136	53	122	48
469	Avocado Green	136	53	130	51	117	46
470	Avocado Green-LT	23	9	22	8	19	7
472	Avocado Green-UL LT	269	105	256	100	230	90
500	Blue Green-VY DK	231	90	220	86	198	77
502	Blue Green	347	136	331	130	298	117
503	Blue Green-MD	486	191	463	182	416	163
520	Fern Green-DK	409	161	389	153	350	137
523	Fern Green-LT	488	192	465	183	418	164
543	Beige Brown-UL VY LT	1398	550	1331	524	1198	471
564	Jade-VY LT	274	107	261	102	235	92
580	Moss Green-DK	394	155	375	147	338	133
581	Moss Green	118	46	113	44	101	39
598	Turquoise-LT	1258	495	1198	471	1078	424
613	Drab Brown-VY LT	1025	403	976	384	878	345
632	Desert Sand-UL VY DK	34	13	33	12	29	11
644	Beige Gray-MD	949	373	904	355	813	320
677	Old Gold-VY LT	609	239	580	228	522	205
733	Olive Green-MD	147	57	140	55	126	49
738	Tan-VY LT	617	242	588	231	529	208
739	Tan-UL VY LT	788	310	751	295	676	266
747	Sky Blue-VY LT	3442	1355	3278	1290	2950	1161
754	Peach-LT	343	135	327	128	294	115
762	Pearl Gray-VY LT	1601	630	1525	600	1372	540
775	Baby Blue-VY LT	644	253	613	241	552	217
778	Antique Mauve-VY LT	153	60	146	57	131	51
819	Baby Pink-LT	3143	1237	2994	1178	2694	1060
822	Beige Gray-LT	828	325	788	310	709	279
823	Navy Blue-DK	10	3	10	3	9	3
827	Blue-VY LT	67	26	64	25	57	22
869	Hazelnut Brown-VY DK	25	9	24	9	21	8
895	Hunter Green-VY DK	404	159	385	151	346	136
898	Coffee Brown-VY DK	25	9	24	9	21	8
924	Gray Green--VY DK	127	50	120	47	108	42
926	Gray Green-MD	255	100	243	95	219	86
927	Gray Green-LT	383	150	365	143	329	129
935	Avocado Green-DK	133	52	127	50	114	44
936	Avocado Green-VY DK	136	53	130	51	117	46
938	Coffee Brown-UL DK	202	79	192	75	173	68

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948	Peach-VY LT	223	87	212	83	191	75
955	Nile Green-LT	544	214	518	203	466	183
964	Sea Green-LT	662	260	630	248	567	223
993	Aquamarine-LT	872	343	831	327	747	294
3013	Khaki Green-LT	728	286	693	272	624	245
3024	Brown Gray-VY LT	870	342	828	325	745	293
3041	Antique Violet-MD	32	12	30	11	27	10
3052	Green Gray-MD	188	74	179	70	161	63
3078	Golden Yellow-VY LT	12	4	12	4	11	4
3346	Hunter Green	263	103	250	98	225	88
3347	Yellow Green-MD	155	61	148	58	133	52
3348	Yellow Green-LT	87	34	83	32	74	29
3364	Pine Green	296	116	282	111	254	100
3713	Salmon-VY LT	59	23	56	22	51	20
3721	Shell Pink-DK	27	10	26	10	23	9
3726	Antique Mauve-DK	90	35	86	33	77	30
3727	Antique Mauve-LT	48	18	45	17	41	16
3740	Antique Violet-DK	17	6	16	6	14	5
3755	Baby Blue	22	8	21	8	19	7
3756	Baby Blue-UL VY LT	551	216	525	206	472	185
3761	Sky Blue-LT	444	174	423	166	380	149
3768	Gray Green-DK	206	81	196	77	177	69
3772	Desert Sand-VY DK	248	97	237	93	213	83
3778	Terra Cotta-LT	115	45	109	42	98	38
3787	Brown Gray-DK	147	57	140	55	126	49
3799	Pewter Gray-VY DK	80	31	76	29	68	26
3815	Celadon Green-DK	181	71	173	68	155	61
3819	Moss Green-LT	82	32	78	30	70	27
3820	Straw-DK	16	6	15	5	14	5
3823	Yellow-UL Pale	159	62	151	59	136	53
3836	Grape-LT	28	11	27	10	24	9
3840	Lavender Blue-LT	180	70	172	67	154	60
3841	Baby Blue-Pale	2854	1123	2719	1070	2447	963
3859	Rosewood-LT	276	108	262	103	236	92
3860	Cocoa	287	112	273	107	246	96
3861	Cocoa-LT	265	104	252	99	227	89
3862	Mocha Beige-DK	205	80	195	76	175	68
3864	Mocha Beige-LT	300	118	285	112	257	101
3865	Winter White	1029	405	980	385	882	347

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	236	92	197	77	98	38
224	Shell Pink-VY LT	85	32	71	27	35	14
307	Lemon	52	20	44	17	22	8
317	Pewter Gray	193	76	161	63	80	32
318	Steel Gray-LT	176	68	147	57	74	29
340	Blue Violet-MD	13	4	11	3	5	2
371	Mustard	446	175	372	146	186	73
372	Mustard-LT	185	72	155	60	77	30
407	Desert Sand-DK	418	164	348	137	174	68
414	Steel Gray-DK	319	124	266	104	133	52
415	Pearl Gray	1046	410	872	342	436	171
433	Brown-MD	272	106	227	89	113	44
434	Brown-LT	385	151	321	126	161	63

436	Tan	436	171	363	143	182	71
445	Lemon-LT	126	49	105	41	53	20
452	Shell Gray-MD	220	86	183	72	92	36
469	Avocado Green	211	83	176	69	88	35
470	Avocado Green-LT	34	13	29	11	14	5
472	Avocado Green-UL LT	414	162	345	135	173	68
500	Blue Green-VY DK	356	139	297	116	149	58
502	Blue Green	536	211	447	176	224	88
503	Blue Green-MD	749	293	624	245	312	122
520	Fern Green-DK	630	247	525	206	263	103
523	Fern Green-LT	752	295	627	246	314	123
543	Beige Brown-UL VY LT	2156	848	1797	707	899	353
564	Jade-VY LT	423	166	353	138	176	69
580	Moss Green-DK	608	239	507	200	254	100
581	Moss Green	182	70	152	59	76	29
598	Turquoise-LT	1940	763	1617	636	809	318
613	Drab Brown-VY LT	1580	621	1317	518	659	259
632	Desert Sand-UL VY DK	52	20	44	17	22	8
644	Beige Gray-MD	1463	576	1220	480	610	240
677	Old Gold-VY LT	940	369	783	308	392	154
733	Olive Green-MD	227	88	189	74	95	37
738	Tan-VY LT	952	374	794	312	397	156
739	Tan-UL VY LT	1217	479	1014	399	507	200
747	Sky Blue-VY LT	5310	2090	4425	1742	2213	871
754	Peach-LT	529	207	441	173	221	86
762	Pearl Gray-VY LT	2470	972	2058	810	1029	405
775	Baby Blue-VY LT	994	391	828	326	414	163
778	Antique Mauve-VY LT	236	92	197	77	98	38
819	Baby Pink-LT	4849	1908	4041	1590	2021	795
822	Beige Gray-LT	1276	502	1064	419	532	209
823	Navy Blue-DK	16	5	14	5	7	2
827	Blue-VY LT	103	40	86	33	43	17
869	Hazelnut Brown-VY DK	38	14	32	12	16	6
895	Hunter Green-VY DK	623	245	519	204	260	102
898	Coffee Brown-VY DK	38	14	32	12	16	6
924	Gray Green--VY DK	194	76	162	63	81	32
926	Gray Green-MD	394	155	329	129	164	65
927	Gray Green-LT	592	232	494	194	247	97
935	Avocado Green-DK	205	79	171	66	86	33
936	Avocado Green-VY DK	211	83	176	69	88	35
938	Coffee Brown-UL DK	311	122	260	102	130	51
948	Peach-VY LT	344	135	287	113	143	56
955	Nile Green-LT	839	329	699	275	350	137
964	Sea Green-LT	1021	401	851	335	425	167
993	Aquamarine-LT	1345	529	1121	441	560	221
3013	Khaki Green-LT	1123	441	936	368	468	184
3024	Brown Gray-VY LT	1341	527	1118	440	559	220
3041	Antique Violet-MD	49	18	41	15	20	8
3052	Green Gray-MD	290	113	242	95	121	47
3078	Golden Yellow-VY LT	20	7	17	6	8	3
3346	Hunter Green	405	158	338	132	169	66
3347	Yellow Green-MD	239	94	200	78	100	39
3348	Yellow Green-LT	133	52	111	44	56	22
3364	Pine Green	457	180	381	150	191	75
3713	Salmon-VY LT	92	36	77	30	38	15
3721	Shell Pink-DK	41	16	35	14	17	7
3726	Antique Mauve-DK	139	54	116	45	58	23
3727	Antique Mauve-LT	74	29	62	24	31	12
3740	Antique Violet-DK	25	9	21	8	11	4

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3755	Baby Blue	34	13	29	11	14	5
3756	Baby Blue-UL VY LT	850	333	708	278	354	139
3761	Sky Blue-LT	684	268	570	224	285	112
3768	Gray Green-DK	319	124	266	104	133	52
3772	Desert Sand-VY DK	383	149	320	125	160	62
3778	Terra Cotta-LT	176	68	147	57	74	29
3787	Brown Gray-DK	227	88	189	74	95	37
3799	Pewter Gray-VY DK	122	47	102	39	51	20
3815	Celadon Green-DK	279	110	233	92	116	46
3819	Moss Green-LT	126	49	105	41	53	20
3820	Straw-DK	25	9	21	8	11	4
3823	Yellow-UL Pale	245	95	204	80	102	40
3836	Grape-LT	43	16	36	14	18	7
3840	Lavender Blue-LT	277	108	231	90	116	45
3841	Baby Blue-Pale	4405	1733	3671	1445	1835	722
3859	Rosewood-LT	425	166	354	138	177	69
3860	Cocoa	443	173	369	144	185	72
3861	Cocoa-LT	409	160	341	134	170	67
3862	Mocha Beige-DK	315	122	263	102	131	51
3864	Mocha Beige-LT	463	182	386	152	193	76
3865	Winter White	1588	625	1323	521	662	260

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	94	37	91	35	87	34
224	Shell Pink-VY LT	34	13	33	12	31	12
307	Lemon	21	8	20	8	19	7
317	Pewter Gray	77	30	74	29	71	28
318	Steel Gray-LT	71	27	68	26	65	25
340	Blue Violet-MD	5	1	5	1	5	1
371	Mustard	179	70	172	67	165	65
372	Mustard-LT	74	29	71	28	69	27
407	Desert Sand-DK	167	66	161	63	155	61
414	Steel Gray-DK	127	50	123	48	118	46
415	Pearl Gray	418	164	402	158	387	152
433	Brown-MD	109	42	105	41	101	39
434	Brown-LT	154	60	148	58	143	56
436	Tan	174	68	168	66	161	63
445	Lemon-LT	50	19	48	19	47	18
452	Shell Gray-MD	88	35	84	33	81	32
469	Avocado Green	84	33	81	32	78	31
470	Avocado Green-LT	14	5	13	5	13	5
472	Avocado Green-UL LT	166	65	159	62	153	60
500	Blue Green-VY DK	143	55	137	53	132	51
502	Blue Green	215	84	206	81	199	78
503	Blue Green-MD	300	117	288	113	277	109
520	Fern Green-DK	252	99	242	95	233	91
523	Fern Green-LT	301	118	289	114	279	109
543	Beige Brown-UL VY LT	863	339	829	326	799	314
564	Jade-VY LT	169	66	163	64	157	61
580	Moss Green-DK	243	96	234	92	225	89
581	Moss Green	73	28	70	27	67	26
598	Turquoise-LT	776	305	746	294	719	283
613	Drab Brown-VY LT	632	248	608	239	585	230
632	Desert Sand-UL VY DK	21	8	20	8	19	7

644	Beige Gray-MD	585	230	563	222	542	213
677	Old Gold-VY LT	376	148	361	142	348	137
733	Olive Green-MD	91	35	87	34	84	33
738	Tan-VY LT	381	150	366	144	353	139
739	Tan-UL VY LT	487	192	468	184	451	177
747	Sky Blue-VY LT	2124	836	2042	804	1967	774
754	Peach-LT	212	83	204	80	196	77
762	Pearl Gray-VY LT	988	389	950	374	915	360
775	Baby Blue-VY LT	397	156	382	150	368	145
778	Antique Mauve-VY LT	94	37	91	35	87	34
819	Baby Pink-LT	1940	763	1865	734	1796	707
822	Beige Gray-LT	510	201	491	193	473	186
823	Navy Blue-DK	6	2	6	2	6	2
827	Blue-VY LT	41	16	39	15	38	15
869	Hazelnut Brown-VY DK	15	6	15	6	14	5
895	Hunter Green-VY DK	249	98	240	94	231	91
898	Coffee Brown-VY DK	15	6	15	6	14	5
924	Gray Green--VY DK	78	30	75	29	72	28
926	Gray Green-MD	158	62	152	60	146	57
927	Gray Green-LT	237	93	228	89	219	86
935	Avocado Green-DK	82	32	79	30	76	29
936	Avocado Green-VY DK	84	33	81	32	78	31
938	Coffee Brown-UL DK	125	49	120	47	115	45
948	Peach-VY LT	138	54	132	52	127	50
955	Nile Green-LT	336	132	323	127	311	122
964	Sea Green-LT	408	161	393	154	378	149
993	Aquamarine-LT	538	212	517	204	498	196
3013	Khaki Green-LT	449	176	432	170	416	163
3024	Brown Gray-VY LT	536	211	516	203	497	195
3041	Antique Violet-MD	19	7	19	7	18	7
3052	Green Gray-MD	116	45	111	44	107	42
3078	Golden Yellow-VY LT	8	3	8	3	7	3
3346	Hunter Green	162	63	156	61	150	59
3347	Yellow Green-MD	96	37	92	36	89	35
3348	Yellow Green-LT	53	21	51	20	49	19
3364	Pine Green	183	72	176	69	169	67
3713	Salmon-VY LT	37	14	35	14	34	13
3721	Shell Pink-DK	17	6	16	6	15	6
3726	Antique Mauve-DK	55	22	53	21	51	20
3727	Antique Mauve-LT	30	12	28	11	27	11
3740	Antique Violet-DK	10	4	10	3	9	3
3755	Baby Blue	14	5	13	5	13	5
3756	Baby Blue-UL VY LT	340	133	327	128	315	123
3761	Sky Blue-LT	274	107	263	103	253	99
3768	Gray Green-DK	127	50	123	48	118	46
3772	Desert Sand-VY DK	153	60	147	57	142	55
3778	Terra Cotta-LT	71	27	68	26	65	25
3787	Brown Gray-DK	91	35	87	34	84	33
3799	Pewter Gray-VY DK	49	19	47	18	45	17
3815	Celadon Green-DK	112	44	107	42	103	41
3819	Moss Green-LT	50	19	48	19	47	18
3820	Straw-DK	10	4	10	3	9	3
3823	Yellow-UL Pale	98	38	94	37	91	35
3836	Grape-LT	17	6	17	6	16	6
3840	Lavender Blue-LT	111	43	107	42	103	40
3841	Baby Blue-Pale	1762	693	1694	667	1631	642
3859	Rosewood-LT	170	66	163	64	157	61
3860	Cocoa	177	69	170	66	164	64
3861	Cocoa-LT	163	64	157	62	151	59

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3862	Mocha Beige-DK	126	49	121	47	117	45
3864	Mocha Beige-LT	185	73	178	70	171	67
3865	Winter White	635	250	611	240	588	231

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	84	33	79	31	74	29
224	Shell Pink-VY LT	30	12	28	11	26	10
307	Lemon	19	7	17	7	16	6
317	Pewter Gray	69	27	64	25	60	24
318	Steel Gray-LT	63	24	59	23	55	21
340	Blue Violet-MD	5	1	4	1	4	1
371	Mustard	159	62	149	58	140	55
372	Mustard-LT	66	26	62	24	58	23
407	Desert Sand-DK	149	59	139	55	131	51
414	Steel Gray-DK	114	44	106	41	100	39
415	Pearl Gray	374	147	349	137	327	128
433	Brown-MD	97	38	91	35	85	33
434	Brown-LT	138	54	128	50	120	47
436	Tan	156	61	145	57	136	53
445	Lemon-LT	45	17	42	16	39	15
452	Shell Gray-MD	78	31	73	29	69	27
469	Avocado Green	75	30	70	28	66	26
470	Avocado Green-LT	12	5	11	4	11	4
472	Avocado Green-UL LT	148	58	138	54	129	51
500	Blue Green-VY DK	127	50	119	46	111	43
502	Blue Green	192	75	179	70	168	66
503	Blue Green-MD	267	105	250	98	234	92
520	Fern Green-DK	225	88	210	82	197	77
523	Fern Green-LT	269	105	251	98	235	92
543	Beige Brown-UL VY LT	770	303	719	283	674	265
564	Jade-VY LT	151	59	141	55	132	52
580	Moss Green-DK	217	86	203	80	190	75
581	Moss Green	65	25	61	23	57	22
598	Turquoise-LT	693	273	647	254	606	239
613	Drab Brown-VY LT	564	222	527	207	494	194
632	Desert Sand-UL VY DK	19	7	17	7	16	6
644	Beige Gray-MD	523	206	488	192	457	180
677	Old Gold-VY LT	336	132	313	123	294	115
733	Olive Green-MD	81	32	76	29	71	28
738	Tan-VY LT	340	134	317	125	298	117
739	Tan-UL VY LT	435	171	406	160	380	150
747	Sky Blue-VY LT	1896	746	1770	697	1659	653
754	Peach-LT	189	74	176	69	165	65
762	Pearl Gray-VY LT	882	347	823	324	772	304
775	Baby Blue-VY LT	355	140	331	130	311	122
778	Antique Mauve-VY LT	84	33	79	31	74	29
819	Baby Pink-LT	1732	681	1616	636	1515	596
822	Beige Gray-LT	456	179	425	167	399	157
823	Navy Blue-DK	6	2	5	2	5	2
827	Blue-VY LT	37	14	34	13	32	12
869	Hazelnut Brown-VY DK	14	5	13	5	12	5
895	Hunter Green-VY DK	222	87	208	82	195	77
898	Coffee Brown-VY DK	14	5	13	5	12	5
924	Gray Green--VY DK	69	27	65	25	61	24
926	Gray Green-MD	141	55	131	52	123	48

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927	Gray Green-LT	212	83	197	77	185	73
935	Avocado Green-DK	73	28	68	26	64	25
936	Avocado Green-VY DK	75	30	70	28	66	26
938	Coffee Brown-UL DK	111	44	104	41	97	38
948	Peach-VY LT	123	48	115	45	107	42
955	Nile Green-LT	300	118	280	110	262	103
964	Sea Green-LT	365	143	340	134	319	125
993	Aquamarine-LT	480	189	448	176	420	165
3013	Khaki Green-LT	401	158	374	147	351	138
3024	Brown Gray-VY LT	479	188	447	176	419	165
3041	Antique Violet-MD	17	6	16	6	15	6
3052	Green Gray-MD	104	41	97	38	91	35
3078	Golden Yellow-VY LT	7	3	7	2	6	2
3346	Hunter Green	145	57	135	53	127	50
3347	Yellow Green-MD	86	33	80	31	75	29
3348	Yellow Green-LT	48	19	44	17	42	16
3364	Pine Green	163	64	152	60	143	56
3713	Salmon-VY LT	33	13	31	12	29	11
3721	Shell Pink-DK	15	6	14	5	13	5
3726	Antique Mauve-DK	50	19	46	18	43	17
3727	Antique Mauve-LT	26	10	25	10	23	9
3740	Antique Violet-DK	9	3	8	3	8	3
3755	Baby Blue	12	5	11	4	11	4
3756	Baby Blue-UL VY LT	303	119	283	111	266	104
3761	Sky Blue-LT	244	96	228	89	214	84
3768	Gray Green-DK	114	44	106	41	100	39
3772	Desert Sand-VY DK	137	53	128	50	120	47
3778	Terra Cotta-LT	63	24	59	23	55	21
3787	Brown Gray-DK	81	32	76	29	71	28
3799	Pewter Gray-VY DK	44	17	41	16	38	15
3815	Celadon Green-DK	100	39	93	37	87	34
3819	Moss Green-LT	45	17	42	16	39	15
3820	Straw-DK	9	3	8	3	8	3
3823	Yellow-UL Pale	87	34	82	32	77	30
3836	Grape-LT	15	6	14	5	14	5
3840	Lavender Blue-LT	99	39	92	36	87	34
3841	Baby Blue-Pale	1573	619	1468	578	1376	542
3859	Rosewood-LT	152	59	142	55	133	52
3860	Cocoa	158	62	148	58	138	54
3861	Cocoa-LT	146	57	136	53	128	50
3862	Mocha Beige-DK	113	44	105	41	98	38
3864	Mocha Beige-LT	165	65	154	61	145	57
3865	Winter White	567	223	529	208	496	195

	10										20										30										40										50									
10	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
20	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
	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																		

[illegible]

[illegible]

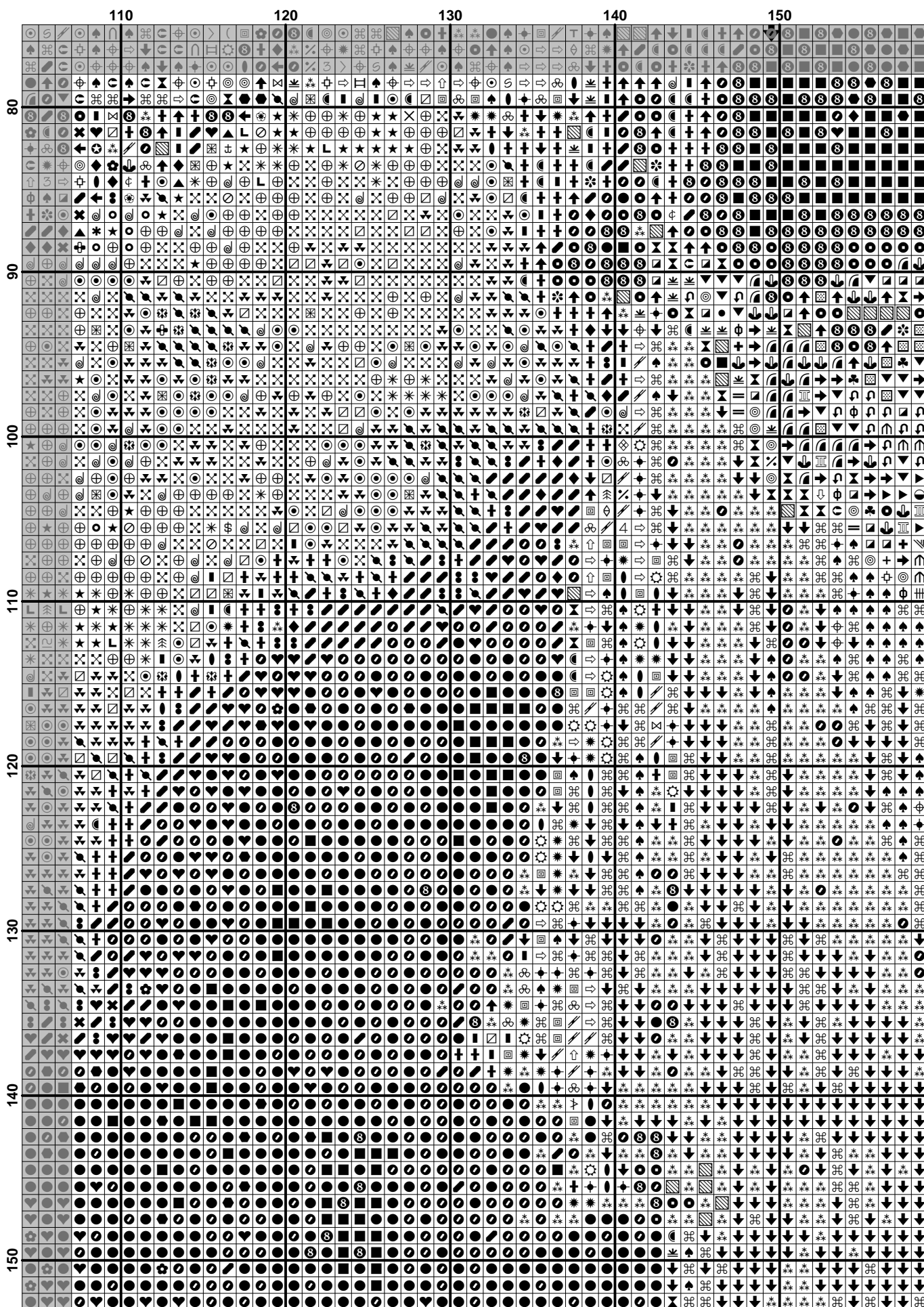
$$(10) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (11)$$

[illegible]

(12)

$$(13) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (14)$$

$$(14) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$



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

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

(18)

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

$$(20) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (21)$$

	110	120	130	140	150
150	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
160	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
170	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
180	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
190	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
200	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
210	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣
220	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣	♠♥♦♣

$$(22) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (23)$$

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

$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (26)$$

$$(26) \quad \dots \quad (27)$$

$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

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

	210	220	230	240	250	260
230	✓	✓	✓	✓	✓	✓
240	✓	✓	✓	✓	✓	✓
250	✓	✓	✓	✓	✓	✓
260	✓	✓	✓	✓	✓	✓
270	✓	✓	✓	✓	✓	✓
280	✓	✓	✓	✓	✓	✓
290	✓	✓	✓	✓	✓	✓
300	✓	✓	✓	✓	✓	✓

(30)

[illegible]

$$(32) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (33)$$

	110	120	130	140	150
300
310
320
330
340
350
360
370

$$(34) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (35)$$

300	210	220	230	240	250	260
300	300	300	300	300	300	300
310	310	310	310	310	310	310
320	320	320	320	320	320	320
330	330	330	330	330	330	330
340	340	340	340	340	340	340
350	350	350	350	350	350	350
360	360	360	360	360	360	360
370	370	370	370	370	370	370

300	260	270	280	290
300	260	270	280	290
310				
320				
330				
340				
350				
360				
370				

[illegible]

[illegible]

	110	120	130	140	150
380
390
400
410
420
430
440

	160	170	180	190	200	210
380	4	4	4	4	4	4
390	4	4	4	4	4	4
400	4	4	4	4	4	4
410	4	4	4	4	4	4
420	4	4	4	4	4	4
430	4	4	4	4	4	4
440	4	4	4	4	4	4

[illegible]

[illegible]