

831 Penelope and the Suitors



This pattern may not be copied, sold or in any other way handled in any way that violates the international copyright laws. If you get hold of this pattern (and or this document) in any other way than via a direct download from www.goldenkite.com or via a mail from us, you should report that to us at legal_actions@goldenkite.com .

Copyright (c) 2005-, Golden Kite. All rights reserved.

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)).

This pattern may not be copied, sold or in any other way handled in any way that violates the international copyright laws. If you get hold of this pattern (and or this document) in any other way than via a direct download from www.goldenkite.com or via a mail from us, you should report that to us at legal_actions@goldenkite.com .

Penelope and the Suitors

Stitch Count	
Horizontal:	400
Vertical:	274











































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	50	19.44	64	24.89	44	17.01	57	22.125	39	15.125
Including Margins:	89	35	66	26	80	31	60	24	73	29	55	22
	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	70	27.21	85	33.18	58	22.68	42	16.59	29	11.34
Including Margins:	118	46	86	34	101	40	74	29	58	23	45	18
	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	28	10.88	39	15.31	26	10.46	37	14.74	25	10.08
Including Margins:	56	22	44	17	55	22	42	17	53	21	41	17
	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	25	9.72	34	13.27	23	9.07	31	12.44	21	8.5
Including Margins:	52	21	41	16	50	20	39	16	47	19	37	15

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
	315	Antique Mauve-VY DK
	317	Pewter Gray
	318	Steel Gray-LT
	341	Blue Violet-LT
	370	Mustard-MD
	371	Mustard
	372	Mustard-LT
	414	Steel Gray-DK
	415	Pearl Gray
	422	Hazelnut Brown-LT
	436	Tan
	451	Shell Gray-DK
	452	Shell Gray-MD
	453	Shell Gray-LT
	524	Fern Green-VY LT
	535	Ash Gray-VY LT
	543	Beige Brown-UL VY LT
	611	Drab Brown
	612	Drab Brown-LT
	613	Drab Brown-VY LT
	632	Desert Sand-UL VY DK
	648	Beaver Gray-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
	761	Salmon-LT
	762	Pearl Gray-VY LT
	822	Beige Gray-LT
	833	Golden Olive-LT
	838	Beige Brown-VY DK
	839	Beige Brown-DK
	840	Beige Brown-MD
	841	Beige Brown-LT
	842	Beige Brown-VY LT
	844	Beaver Brown-UL DK
	927	Gray Green-LT
	932	Antique Blue-LT
	934	Black Avocado Green

	938	Coffee Brown-UL DK
	945	Tawny
	948	Peach-VY LT
	950	Desert Sand-LT
	951	Tawny-LT
	3011	Khaki Green-DK
	3024	Brown Gray-VY LT
	3031	Mocha Brown-VY DK
	3032	Mocha Brown-MD
	3041	Antique Violet-MD
	3042	Antique Violet-LT
	3064	Desert Sand
	3072	Beaver Gray-VY LT
	3325	Baby Blue-LT
	3685	Mauve-DK
	3687	Mauve
	3688	Mauve-MD
	3722	Shell Pink-MD
	3726	Antique Mauve-DK
	3727	Antique Mauve-LT
	3731	Dusty Rose-VY DK
	3733	Dusty Rose
	3743	Antique Violet-VY LT
	3747	Blue Violet-VY LT
	3752	Antique Blue-VY LT
	3753	Antique Blue-UL VY LT
	3756	Baby Blue-UL VY LT
	3770	Tawny-VY LT
	3772	Desert Sand-VY DK
	3779	Terra Cotta-UL VY LT
	3781	Mocha Brown-DK
	3782	Mocha Brown-LT
	3802	Antique Mauve-VY DK
	3827	Golden Brown-Pale
	3833	Raspberry-LT
	3840	Lavender Blue-LT
	3841	Baby Blue-Pale
	3856	Mahogany-UL VY LT
	3858	Rosewood-MD
	3859	Rosewood-LT
	3860	Cocoa
	3861	Cocoa-LT
	3862	Mocha Beige-DK
	3863	Mocha Beige-MD
	3865	Winter White
	3866	Mocha Brown-UL VY LT

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

Symbol	DMC1	Name1	DMC2	Name2
⦿	535	Ash Gray-VY LT	844	Beaver Brown-UL DK
⦿	3864	Mocha Beige-LT	758	Terra Cotta-VY LT
⦿	3861	Cocoa-LT	3864	Mocha Beige-LT
⦿	3799	Pewter Gray-VY DK	844	Beaver Brown-UL DK
⦿	842	Beige Brown-VY LT	224	Shell Pink-VY LT
⦿	3756	Baby Blue-UL VY LT	3865	Winter White
⦿	712	Cream	762	Pearl Gray-VY LT
⦿	840	Beige Brown-MD	3860	Cocoa
⦿	3861	Cocoa-LT	927	Gray Green-LT
⦿	3064	Desert Sand	3778	Terra Cotta-LT
⦿	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
⦿	938	Coffee Brown-UL DK	3021	Brown Gray-VY DK
⦿	407	Desert Sand-DK	223	Shell Pink-LT
⦿	3740	Antique Violet-DK	3860	Cocoa
⦿	3770	Tawny-VY LT	948	Peach-VY LT
⦿	3726	Antique Mauve-DK	223	Shell Pink-LT
⦿	223	Shell Pink-LT	3861	Cocoa-LT
⦿	3743	Antique Violet-VY LT	3072	Beaver Gray-VY LT
⦿	838	Beige Brown-VY DK	839	Beige Brown-DK
⦿	839	Beige Brown-DK	610	Drab Brown-DK
⦿	356	Terra Cotta-MD	3772	Desert Sand-VY DK
⦿	632	Desert Sand-UL VY DK	3862	Mocha Beige-DK
⦿	3740	Antique Violet-DK	3787	Brown Gray-DK
⦿	738	Tan-VY LT	3864	Mocha Beige-LT
⦿	3860	Cocoa	3726	Antique Mauve-DK
⦿	3726	Antique Mauve-DK	315	Antique Mauve-VY DK
⦿	3041	Antique Violet-MD	3042	Antique Violet-LT
⦿	844	Beaver Brown-UL DK	838	Beige Brown-VY DK
⦿	452	Shell Gray-MD	223	Shell Pink-LT
⦿	3021	Brown Gray-VY DK	3787	Brown Gray-DK
⦿	3864	Mocha Beige-LT	3064	Desert Sand
⦿	951	Tawny-LT	754	Peach-LT
⦿	3841	Baby Blue-Pale	747	Sky Blue-VY LT
⦿	3860	Cocoa	315	Antique Mauve-VY DK
⦿	838	Beige Brown-VY DK	3802	Antique Mauve-VY DK
⦿	315	Antique Mauve-VY DK	3802	Antique Mauve-VY DK
⦿	3722	Shell Pink-MD	3778	Terra Cotta-LT
⦿	3860	Cocoa	3861	Cocoa-LT
⦿	543	Beige Brown-UL VY LT	453	Shell Gray-LT
⦿	3787	Brown Gray-DK	840	Beige Brown-MD
⦿	415	Pearl Gray	3042	Antique Violet-LT
⦿	3721	Shell Pink-DK	3722	Shell Pink-MD
⦿	3042	Antique Violet-LT	414	Steel Gray-DK
⦿	3830	Terra Cotta-MD	3722	Shell Pink-MD
⦿	758	Terra Cotta-VY LT	3064	Desert Sand
⦿	3861	Cocoa-LT	316	Antique Mauve-MD
⦿	3840	Lavender Blue-LT	3841	Baby Blue-Pale
⦿	927	Gray Green-LT	451	Shell Gray-DK
⦿	3861	Cocoa-LT	3726	Antique Mauve-DK
⦿	451	Shell Gray-DK	3861	Cocoa-LT
⦿	3031	Mocha Brown-VY DK	535	Ash Gray-VY LT
⦿	3740	Antique Violet-DK	317	Pewter Gray
⦿	316	Antique Mauve-MD	3042	Antique Violet-LT

Copyright (c) 2005-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

→	839	Beige Brown-DK	315	Antique Mauve-VY DK
卅	223	Shell Pink-LT	840	Beige Brown-MD
↓	371	Mustard	3859	Rosewood-LT
◆	838	Beige Brown-VY DK	3740	Antique Violet-DK
♠	3860	Cocoa	414	Steel Gray-DK
✕	3740	Antique Violet-DK	3031	Mocha Brown-VY DK
●	316	Antique Mauve-MD	3041	Antique Violet-MD
◎	223	Shell Pink-LT	3864	Mocha Beige-LT
⊕	407	Desert Sand-DK	3687	Mauve
↑	3727	Antique Mauve-LT	224	Shell Pink-VY LT
☼	840	Beige Brown-MD	3861	Cocoa-LT
†	3864	Mocha Beige-LT	3688	Mauve-MD
◇	3726	Antique Mauve-DK	3731	Dusty Rose-VY DK
⊕	371	Mustard	356	Terra Cotta-MD
♣	414	Steel Gray-DK	3740	Antique Violet-DK
√	211	Lavender-LT	762	Pearl Gray-VY LT
—	3747	Blue Violet-VY LT	3756	Baby Blue-UL VY LT
•	341	Blue Violet-LT	3325	Baby Blue-LT
◇◇	543	Beige Brown-UL VY LT	842	Beige Brown-VY LT
⊕	315	Antique Mauve-VY DK	414	Steel Gray-DK
／	223	Shell Pink-LT	927	Gray Green-LT
∩	758	Terra Cotta-VY LT	223	Shell Pink-LT
∩	758	Terra Cotta-VY LT	3833	Raspberry-LT
∥	3688	Mauve-MD	758	Terra Cotta-VY LT
✱	535	Ash Gray-VY LT	3860	Cocoa
↖	3864	Mocha Beige-LT	3833	Raspberry-LT
⌘	758	Terra Cotta-VY LT	3726	Antique Mauve-DK
?	762	Pearl Gray-VY LT	452	Shell Gray-MD
↔	3864	Mocha Beige-LT	452	Shell Gray-MD
+	223	Shell Pink-LT	3858	Rosewood-MD
▲	961	Dusty Rose-DK	223	Shell Pink-LT
⊕	3731	Dusty Rose-VY DK	3722	Shell Pink-MD
*	3726	Antique Mauve-DK	3722	Shell Pink-MD
☾	3803	Mauve-MD	3721	Shell Pink-DK
▲	3722	Shell Pink-MD	3858	Rosewood-MD
☾	3731	Dusty Rose-VY DK	3778	Terra Cotta-LT
∩	3778	Terra Cotta-LT	3833	Raspberry-LT
=	961	Dusty Rose-DK	3731	Dusty Rose-VY DK
•	951	Tawny-LT	945	Tawny
▲	733	Olive Green-MD	371	Mustard
✱	371	Mustard	927	Gray Green-LT
✕	223	Shell Pink-LT	316	Antique Mauve-MD
▲	3787	Brown Gray-DK	838	Beige Brown-VY DK
6	945	Tawny	758	Terra Cotta-VY LT
⊕	3687	Mauve	3688	Mauve-MD
↑	3740	Antique Violet-DK	3021	Brown Gray-VY DK
∇	841	Beige Brown-LT	524	Fern Green-VY LT

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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
211	Lavender-LT	13	5	13	5	11	4
223	Shell Pink-LT	940	370	896	352	806	317
224	Shell Pink-VY LT	76	29	72	28	65	25
315	Antique Mauve-VY DK	2088	822	1989	783	1790	704
316	Antique Mauve-MD	70	27	67	26	60	23
317	Pewter Gray	74	29	71	27	63	24
318	Steel Gray-LT	41	16	39	15	35	13
341	Blue Violet-LT	67	26	64	25	57	22
356	Terra Cotta-MD	55	21	52	20	47	18
370	Mustard-MD	10	3	10	3	9	3
371	Mustard	126	49	120	47	108	42
372	Mustard-LT	11	4	11	4	10	3
407	Desert Sand-DK	77	30	74	29	66	25
414	Steel Gray-DK	245	96	233	91	210	82
415	Pearl Gray	88	34	84	33	76	29
422	Hazelnut Brown-LT	12	4	11	4	10	3
436	Tan	9	3	8	3	7	2
451	Shell Gray-DK	308	121	293	115	264	103
452	Shell Gray-MD	253	99	241	94	217	85
453	Shell Gray-LT	132	51	126	49	113	44
524	Fern Green-VY LT	22	8	21	8	19	7
535	Ash Gray-VY LT	351	138	334	131	301	118
543	Beige Brown-UL VY LT	88	34	84	33	75	29
610	Drab Brown-DK	187	73	178	70	160	62
611	Drab Brown	11	4	10	3	9	3
612	Drab Brown-LT	18	7	17	6	15	5
613	Drab Brown-VY LT	7	2	7	2	6	2
632	Desert Sand-UL VY DK	319	125	304	119	273	107
648	Beaver Gray-LT	103	40	98	38	88	34
712	Cream	59	23	56	22	51	20
733	Olive Green-MD	5	1	4	1	4	1
738	Tan-VY LT	51	20	48	18	44	17
739	Tan-UL VY LT	52	20	50	19	45	17
746	Off White	53	20	51	20	46	18
747	Sky Blue-VY LT	31	12	30	11	27	10
754	Peach-LT	14	5	13	5	12	4
758	Terra Cotta-VY LT	316	124	301	118	271	106
761	Salmon-LT	6	2	5	1	5	1
762	Pearl Gray-VY LT	122	48	116	45	104	40
822	Beige Gray-LT	57	22	54	21	49	19
833	Golden Olive-LT	3	1	3	1	3	1
838	Beige Brown-VY DK	3242	1276	3087	1215	2779	1094
839	Beige Brown-DK	2267	892	2159	850	1943	764
840	Beige Brown-MD	592	233	564	222	507	199
841	Beige Brown-LT	45	17	43	16	38	14
842	Beige Brown-VY LT	93	36	89	35	80	31
844	Beaver Brown-UL DK	1151	453	1096	431	986	388
927	Gray Green-LT	138	54	132	51	119	46
932	Antique Blue-LT	8	3	7	2	7	2
934	Black Avocado Green	120	47	114	44	103	40
938	Coffee Brown-UL DK	1502	591	1430	562	1287	506
945	Tawny	90	35	85	33	77	30
948	Peach-VY LT	49	19	47	18	42	16
950	Desert Sand-LT	60	23	57	22	51	20

Copyright (c) 2005-, Golden Kite (Golden K.)

Internet: www.goldenkite.com

e-mail: info@goldenkite.com

951	Tawny-LT	134	52	128	50	115	45
961	Dusty Rose-DK	87	34	83	32	75	29
3011	Khaki Green-DK	5	1	5	1	4	1
3021	Brown Gray-VY DK	1418	558	1351	531	1215	478
3024	Brown Gray-VY LT	34	13	33	12	29	11
3031	Mocha Brown-VY DK	1543	607	1469	578	1322	520
3032	Mocha Brown-MD	20	7	19	7	17	6
3041	Antique Violet-MD	103	40	98	38	89	35
3042	Antique Violet-LT	207	81	198	77	178	70
3064	Desert Sand	248	97	236	92	212	83
3072	Beaver Gray-VY LT	150	59	143	56	129	50
3325	Baby Blue-LT	30	11	29	11	26	10
3685	Mauve-DK	11	4	10	3	9	3
3687	Mauve	55	21	52	20	47	18
3688	Mauve-MD	83	32	79	31	71	27
3721	Shell Pink-DK	162	63	154	60	139	54
3722	Shell Pink-MD	729	287	695	273	625	246
3726	Antique Mauve-DK	1150	452	1095	431	986	388
3727	Antique Mauve-LT	17	6	16	6	14	5
3731	Dusty Rose-VY DK	346	136	330	129	297	116
3733	Dusty Rose	16	6	16	6	14	5
3740	Antique Violet-DK	1915	753	1823	717	1641	646
3743	Antique Violet-VY LT	76	29	72	28	65	25
3747	Blue Violet-VY LT	104	40	99	38	89	35
3752	Antique Blue-VY LT	13	5	12	4	11	4
3753	Antique Blue-UL VY LT	14	5	13	5	12	4
3756	Baby Blue-UL VY LT	115	45	109	42	98	38
3770	Tawny-VY LT	51	20	48	18	44	17
3772	Desert Sand-VY DK	369	145	351	138	316	124
3778	Terra Cotta-LT	201	79	192	75	172	67
3779	Terra Cotta-UL VY LT	7	2	7	2	6	2
3781	Mocha Brown-DK	18	7	17	6	15	5
3782	Mocha Brown-LT	14	5	13	5	12	4
3787	Brown Gray-DK	539	212	513	201	462	181
3799	Pewter Gray-VY DK	126	49	120	47	108	42
3802	Antique Mauve-VY DK	754	296	718	282	646	254
3803	Mauve-MD	64	25	61	24	55	21
3827	Golden Brown-Pale	6	2	5	1	5	1
3830	Terra Cotta-MD	30	11	28	11	25	9
3833	Raspberry-LT	73	28	70	27	63	24
3840	Lavender Blue-LT	74	29	70	27	63	24
3841	Baby Blue-Pale	73	28	70	27	63	24
3856	Mahogany-UL VY LT	16	6	15	5	14	5
3858	Rosewood-MD	296	116	282	111	254	100
3859	Rosewood-LT	168	66	160	62	144	56
3860	Cocoa	1781	701	1696	667	1526	600
3861	Cocoa-LT	703	276	669	263	602	237
3862	Mocha Beige-DK	171	67	163	64	147	57
3863	Mocha Beige-MD	57	22	54	21	49	19
3864	Mocha Beige-LT	294	115	280	110	252	99
3865	Winter White	196	77	187	73	168	66
3866	Mocha Brown-UL VY LT	84	33	80	31	72	28

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
211	Lavender-LT	20	7	17	6	8	3
223	Shell Pink-LT	1451	571	1209	476	605	238
224	Shell Pink-VY LT	117	45	98	38	49	19
315	Antique Mauve-VY DK	3222	1267	2685	1056	1343	528
316	Antique Mauve-MD	108	41	90	35	45	17
317	Pewter Gray	113	43	95	36	47	18
318	Steel Gray-LT	63	23	53	20	26	10
341	Blue Violet-LT	103	40	86	33	43	17
356	Terra Cotta-MD	85	32	71	27	35	14
370	Mustard-MD	16	5	14	5	7	2
371	Mustard	194	76	162	63	81	32
372	Mustard-LT	18	5	15	5	8	2
407	Desert Sand-DK	119	45	99	38	50	19
414	Steel Gray-DK	378	148	315	123	158	62
415	Pearl Gray	137	52	114	44	57	22
422	Hazelnut Brown-LT	18	5	15	5	8	2
436	Tan	13	4	11	3	5	2
451	Shell Gray-DK	475	185	396	155	198	77
452	Shell Gray-MD	391	153	326	128	163	64
453	Shell Gray-LT	203	79	170	66	85	33
524	Fern Green-VY LT	34	13	29	11	14	5
535	Ash Gray-VY LT	542	212	452	177	226	89
543	Beige Brown-UL VY LT	135	52	113	44	56	22
610	Drab Brown-DK	288	112	240	93	120	47
611	Drab Brown	16	5	14	5	7	2
612	Drab Brown-LT	27	9	23	8	11	4
613	Drab Brown-VY LT	11	4	9	3	5	2
632	Desert Sand-UL VY DK	491	193	410	161	205	80
648	Beaver Gray-LT	158	61	132	51	66	26
712	Cream	92	36	77	30	38	15
733	Olive Green-MD	7	2	6	2	3	1
738	Tan-VY LT	79	31	66	26	33	13
739	Tan-UL VY LT	81	31	68	26	34	13
746	Off White	83	32	69	27	35	14
747	Sky Blue-VY LT	49	18	41	15	20	8
754	Peach-LT	22	7	18	6	9	3
758	Terra Cotta-VY LT	488	191	407	159	203	80
761	Salmon-LT	9	2	8	2	4	1
762	Pearl Gray-VY LT	187	72	156	60	78	30
822	Beige Gray-LT	88	34	74	29	37	14
833	Golden Olive-LT	5	2	5	2	2	1
838	Beige Brown-VY DK	5002	1969	4169	1641	2084	821
839	Beige Brown-DK	3497	1375	2915	1146	1457	573
840	Beige Brown-MD	913	358	761	299	380	149
841	Beige Brown-LT	68	25	57	21	29	11
842	Beige Brown-VY LT	144	56	120	47	60	23
844	Beaver Brown-UL DK	1775	698	1479	582	740	291
927	Gray Green-LT	214	83	179	69	89	35
932	Antique Blue-LT	13	4	11	3	5	2
934	Black Avocado Green	185	72	155	60	77	30
938	Coffee Brown-UL DK	2317	911	1931	759	965	380
945	Tawny	139	54	116	45	58	23
948	Peach-VY LT	76	29	63	24	32	12

950	Desert Sand-LT	92	36	77	30	38	15
951	Tawny-LT	207	81	173	68	86	34
961	Dusty Rose-DK	135	52	113	44	56	22
3011	Khaki Green-DK	7	2	6	2	3	1
3021	Brown Gray-VY DK	2187	860	1823	717	911	359
3024	Brown Gray-VY LT	52	20	44	17	22	8
3031	Mocha Brown-VY DK	2380	936	1983	780	992	390
3032	Mocha Brown-MD	31	11	26	9	13	5
3041	Antique Violet-MD	160	63	134	53	67	26
3042	Antique Violet-LT	320	126	267	105	134	53
3064	Desert Sand	382	149	318	125	159	62
3072	Beaver Gray-VY LT	232	90	194	75	97	38
3325	Baby Blue-LT	47	18	39	15	20	8
3685	Mauve-DK	16	5	14	5	7	2
3687	Mauve	85	32	71	27	35	14
3688	Mauve-MD	128	49	107	41	53	20
3721	Shell Pink-DK	250	97	209	81	104	41
3722	Shell Pink-MD	1125	443	938	369	469	185
3726	Antique Mauve-DK	1775	698	1479	582	740	291
3727	Antique Mauve-LT	25	9	21	8	11	4
3731	Dusty Rose-VY DK	535	209	446	174	223	87
3733	Dusty Rose	25	9	21	8	11	4
3740	Antique Violet-DK	2954	1163	2462	969	1231	485
3743	Antique Violet-VY LT	117	45	98	38	49	19
3747	Blue Violet-VY LT	160	63	134	53	67	26
3752	Antique Blue-VY LT	20	7	17	6	8	3
3753	Antique Blue-UL VY LT	22	7	18	6	9	3
3756	Baby Blue-UL VY LT	176	68	147	57	74	29
3770	Tawny-VY LT	79	31	66	26	33	13
3772	Desert Sand-VY DK	569	223	474	186	237	93
3778	Terra Cotta-LT	310	121	258	101	129	50
3779	Terra Cotta-UL VY LT	11	4	9	3	5	2
3781	Mocha Brown-DK	27	9	23	8	11	4
3782	Mocha Brown-LT	22	7	18	6	9	3
3787	Brown Gray-DK	832	326	693	272	347	136
3799	Pewter Gray-VY DK	194	76	162	63	81	32
3802	Antique Mauve-VY DK	1163	457	969	381	485	191
3803	Mauve-MD	99	38	83	32	41	16
3827	Golden Brown-Pale	9	2	8	2	4	1
3830	Terra Cotta-MD	45	16	38	14	19	7
3833	Raspberry-LT	113	43	95	36	47	18
3840	Lavender Blue-LT	113	43	95	36	47	18
3841	Baby Blue-Pale	113	43	95	36	47	18
3856	Mahogany-UL VY LT	25	9	21	8	11	4
3858	Rosewood-MD	457	180	381	150	191	75
3859	Rosewood-LT	259	101	216	84	108	42
3860	Cocoa	2747	1080	2289	900	1145	450
3861	Cocoa-LT	1084	427	903	356	452	178
3862	Mocha Beige-DK	265	103	221	86	110	43
3863	Mocha Beige-MD	88	34	74	29	37	14
3864	Mocha Beige-LT	454	178	378	149	189	74
3865	Winter White	302	119	252	99	126	50
3866	Mocha Brown-UL VY LT	130	50	108	42	54	21

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
211	Lavender-LT	8	3	8	3	7	3
223	Shell Pink-LT	580	228	558	219	537	211
224	Shell Pink-VY LT	47	18	45	17	43	17
315	Antique Mauve-VY DK	1289	507	1239	487	1193	469
316	Antique Mauve-MD	43	17	42	16	40	15
317	Pewter Gray	45	17	44	17	42	16
318	Steel Gray-LT	25	9	24	9	23	9
341	Blue Violet-LT	41	16	39	15	38	15
356	Terra Cotta-MD	34	13	33	12	31	12
370	Mustard-MD	6	2	6	2	6	2
371	Mustard	78	30	75	29	72	28
372	Mustard-LT	7	2	7	2	7	2
407	Desert Sand-DK	48	18	46	17	44	17
414	Steel Gray-DK	151	59	145	57	140	55
415	Pearl Gray	55	21	53	20	51	19
422	Hazelnut Brown-LT	7	2	7	2	7	2
436	Tan	5	1	5	1	5	1
451	Shell Gray-DK	190	74	183	71	176	69
452	Shell Gray-MD	156	61	150	59	145	57
453	Shell Gray-LT	81	32	78	30	75	29
524	Fern Green-VY LT	14	5	13	5	13	5
535	Ash Gray-VY LT	217	85	208	82	201	79
543	Beige Brown-UL VY LT	54	21	52	20	50	19
610	Drab Brown-DK	115	45	111	43	107	41
611	Drab Brown	6	2	6	2	6	2
612	Drab Brown-LT	11	4	10	3	10	3
613	Drab Brown-VY LT	4	1	4	1	4	1
632	Desert Sand-UL VY DK	197	77	189	74	182	71
648	Beaver Gray-LT	63	24	61	24	59	23
712	Cream	37	14	35	14	34	13
733	Olive Green-MD	3	1	3	1	3	1
738	Tan-VY LT	32	12	30	12	29	11
739	Tan-UL VY LT	32	12	31	12	30	11
746	Off White	33	13	32	12	31	12
747	Sky Blue-VY LT	19	7	19	7	18	7
754	Peach-LT	9	3	8	3	8	3
758	Terra Cotta-VY LT	195	76	188	73	181	71
761	Salmon-LT	4	1	3	1	3	1
762	Pearl Gray-VY LT	75	29	72	28	69	27
822	Beige Gray-LT	35	14	34	13	33	13
833	Golden Olive-LT	2	1	2	1	2	1
838	Beige Brown-VY DK	2001	788	1924	757	1853	729
839	Beige Brown-DK	1399	550	1345	529	1295	509
840	Beige Brown-MD	365	143	351	138	338	133
841	Beige Brown-LT	27	10	26	10	25	9
842	Beige Brown-VY LT	58	22	55	21	53	21
844	Beaver Brown-UL DK	710	279	683	269	657	259
927	Gray Green-LT	86	33	82	32	79	31
932	Antique Blue-LT	5	1	5	1	5	1
934	Black Avocado Green	74	29	71	28	69	27
938	Coffee Brown-UL DK	927	364	891	350	858	337
945	Tawny	55	22	53	21	51	20
948	Peach-VY LT	30	12	29	11	28	11

950	Desert Sand-LT	37	14	35	14	34	13
951	Tawny-LT	83	32	80	31	77	30
961	Dusty Rose-DK	54	21	52	20	50	19
3011	Khaki Green-DK	3	1	3	1	3	1
3021	Brown Gray-VY DK	875	344	841	331	810	319
3024	Brown Gray-VY LT	21	8	20	8	19	7
3031	Mocha Brown-VY DK	952	374	915	360	881	347
3032	Mocha Brown-MD	12	4	12	4	11	4
3041	Antique Violet-MD	64	25	62	24	59	23
3042	Antique Violet-LT	128	50	123	48	119	47
3064	Desert Sand	153	60	147	57	141	55
3072	Beaver Gray-VY LT	93	36	89	35	86	33
3325	Baby Blue-LT	19	7	18	7	17	7
3685	Mauve-DK	6	2	6	2	6	2
3687	Mauve	34	13	33	12	31	12
3688	Mauve-MD	51	19	49	19	47	18
3721	Shell Pink-DK	100	39	96	37	93	36
3722	Shell Pink-MD	450	177	433	170	417	164
3726	Antique Mauve-DK	710	279	683	269	657	259
3727	Antique Mauve-LT	10	4	10	3	9	3
3731	Dusty Rose-VY DK	214	84	206	80	198	77
3733	Dusty Rose	10	4	10	3	9	3
3740	Antique Violet-DK	1182	465	1136	447	1094	431
3743	Antique Violet-VY LT	47	18	45	17	43	17
3747	Blue Violet-VY LT	64	25	62	24	59	23
3752	Antique Blue-VY LT	8	3	8	3	7	3
3753	Antique Blue-UL VY LT	9	3	8	3	8	3
3756	Baby Blue-UL VY LT	71	27	68	26	65	25
3770	Tawny-VY LT	32	12	30	12	29	11
3772	Desert Sand-VY DK	228	89	219	86	211	83
3778	Terra Cotta-LT	124	48	119	46	115	45
3779	Terra Cotta-UL VY LT	4	1	4	1	4	1
3781	Mocha Brown-DK	11	4	10	3	10	3
3782	Mocha Brown-LT	9	3	8	3	8	3
3787	Brown Gray-DK	333	130	320	125	308	121
3799	Pewter Gray-VY DK	78	30	75	29	72	28
3802	Antique Mauve-VY DK	465	183	447	176	431	169
3803	Mauve-MD	40	15	38	15	37	14
3827	Golden Brown-Pale	4	1	3	1	3	1
3830	Terra Cotta-MD	18	6	17	6	17	6
3833	Raspberry-LT	45	17	44	17	42	16
3840	Lavender Blue-LT	45	17	44	17	42	16
3841	Baby Blue-Pale	45	17	44	17	42	16
3856	Mahogany-UL VY LT	10	4	10	3	9	3
3858	Rosewood-MD	183	72	176	69	169	67
3859	Rosewood-LT	104	40	100	39	96	37
3860	Cocoa	1099	432	1056	415	1017	400
3861	Cocoa-LT	433	171	417	164	401	158
3862	Mocha Beige-DK	106	41	102	39	98	38
3863	Mocha Beige-MD	35	14	34	13	33	13
3864	Mocha Beige-LT	181	71	174	69	168	66
3865	Winter White	121	48	116	46	112	44
3866	Mocha Brown-UL VY LT	52	20	50	19	48	19

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
211	Lavender-LT	7	3	7	2	6	2
223	Shell Pink-LT	518	204	484	190	453	178
224	Shell Pink-VY LT	42	16	39	15	37	14
315	Antique Mauve-VY DK	1151	453	1074	422	1007	396
316	Antique Mauve-MD	39	15	36	14	34	13
317	Pewter Gray	41	15	38	14	35	14
318	Steel Gray-LT	23	8	21	8	20	7
341	Blue Violet-LT	37	14	34	13	32	12
356	Terra Cotta-MD	30	12	28	11	26	10
370	Mustard-MD	6	2	5	2	5	2
371	Mustard	69	27	65	25	61	24
372	Mustard-LT	6	2	6	2	6	2
407	Desert Sand-DK	42	16	40	15	37	14
414	Steel Gray-DK	135	53	126	49	118	46
415	Pearl Gray	49	19	46	17	43	16
422	Hazelnut Brown-LT	6	2	6	2	6	2
436	Tan	5	1	4	1	4	1
451	Shell Gray-DK	170	66	158	62	149	58
452	Shell Gray-MD	140	55	130	51	122	48
453	Shell Gray-LT	73	28	68	26	64	25
524	Fern Green-VY LT	12	5	11	4	11	4
535	Ash Gray-VY LT	194	76	181	71	169	66
543	Beige Brown-UL VY LT	48	19	45	17	42	16
610	Drab Brown-DK	103	40	96	37	90	35
611	Drab Brown	6	2	5	2	5	2
612	Drab Brown-LT	10	3	9	3	8	3
613	Drab Brown-VY LT	4	1	4	1	3	1
632	Desert Sand-UL VY DK	176	69	164	64	154	60
648	Beaver Gray-LT	57	22	53	20	50	19
712	Cream	33	13	31	12	29	11
733	Olive Green-MD	3	1	2	1	2	1
738	Tan-VY LT	28	11	26	10	25	10
739	Tan-UL VY LT	29	11	27	10	25	10
746	Off White	30	12	28	11	26	10
747	Sky Blue-VY LT	17	6	16	6	15	6
754	Peach-LT	8	3	7	2	7	2
758	Terra Cotta-VY LT	174	68	163	64	152	60
761	Salmon-LT	3	1	3	1	3	1
762	Pearl Gray-VY LT	67	26	62	24	59	23
822	Beige Gray-LT	32	12	29	11	28	11
833	Golden Olive-LT	2	1	2	1	2	1
838	Beige Brown-VY DK	1787	703	1667	656	1563	615
839	Beige Brown-DK	1249	491	1166	458	1093	430
840	Beige Brown-MD	326	128	304	119	285	112
841	Beige Brown-LT	24	9	23	8	21	8
842	Beige Brown-VY LT	51	20	48	19	45	17
844	Beaver Brown-UL DK	634	249	592	233	555	218
927	Gray Green-LT	77	30	71	28	67	26
932	Antique Blue-LT	5	1	4	1	4	1
934	Black Avocado Green	66	26	62	24	58	23
938	Coffee Brown-UL DK	827	325	772	304	724	285
945	Tawny	50	19	46	18	43	17
948	Peach-VY LT	27	10	25	10	24	9
950	Desert Sand-LT	33	13	31	12	29	11

Copyright (c) 2005-, Golden Kite (Golden K.)

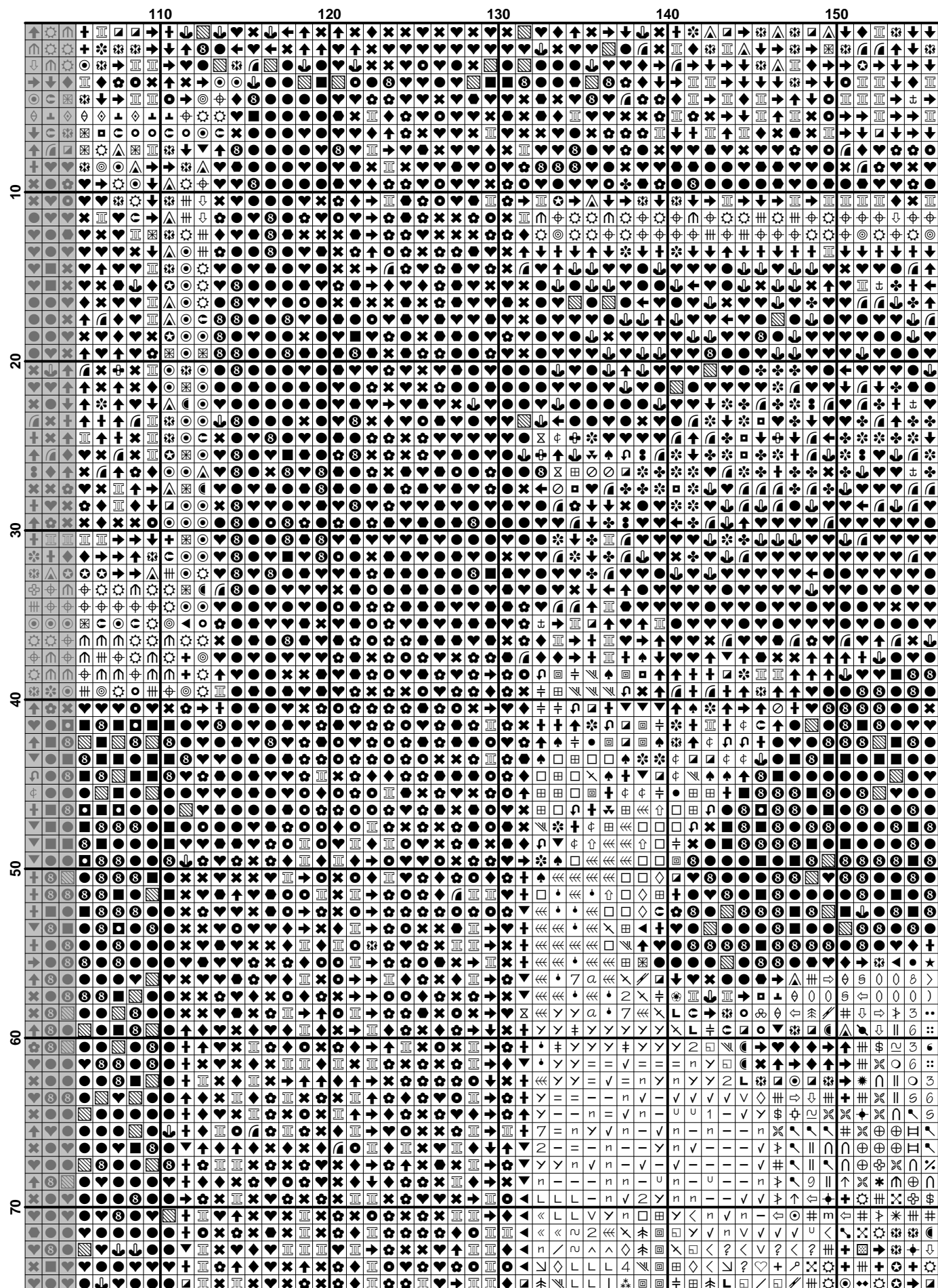
Internet: www.goldenkite.com

e-mail: info@goldenkite.com

951	Tawny-LT	74	29	69	27	65	25
961	Dusty Rose-DK	48	19	45	17	42	16
3011	Khaki Green-DK	3	1	2	1	2	1
3021	Brown Gray-VY DK	781	307	729	287	683	269
3024	Brown Gray-VY LT	19	7	17	7	16	6
3031	Mocha Brown-VY DK	850	334	793	312	744	293
3032	Mocha Brown-MD	11	4	10	4	10	3
3041	Antique Violet-MD	57	23	53	21	50	20
3042	Antique Violet-LT	114	45	107	42	100	39
3064	Desert Sand	136	53	127	50	119	47
3072	Beaver Gray-VY LT	83	32	77	30	73	28
3325	Baby Blue-LT	17	6	16	6	15	6
3685	Mauve-DK	6	2	5	2	5	2
3687	Mauve	30	12	28	11	26	10
3688	Mauve-MD	46	17	43	16	40	15
3721	Shell Pink-DK	89	35	83	32	78	30
3722	Shell Pink-MD	402	158	375	148	352	138
3726	Antique Mauve-DK	634	249	592	233	555	218
3727	Antique Mauve-LT	9	3	8	3	8	3
3731	Dusty Rose-VY DK	191	75	178	70	167	65
3733	Dusty Rose	9	3	8	3	8	3
3740	Antique Violet-DK	1055	415	985	388	923	363
3743	Antique Violet-VY LT	42	16	39	15	37	14
3747	Blue Violet-VY LT	57	23	53	21	50	20
3752	Antique Blue-VY LT	7	3	7	2	6	2
3753	Antique Blue-UL VY LT	8	3	7	2	7	2
3756	Baby Blue-UL VY LT	63	24	59	23	55	21
3770	Tawny-VY LT	28	11	26	10	25	10
3772	Desert Sand-VY DK	203	80	190	74	178	70
3778	Terra Cotta-LT	111	43	103	40	97	38
3779	Terra Cotta-UL VY LT	4	1	4	1	3	1
3781	Mocha Brown-DK	10	3	9	3	8	3
3782	Mocha Brown-LT	8	3	7	2	7	2
3787	Brown Gray-DK	297	116	277	109	260	102
3799	Pewter Gray-VY DK	69	27	65	25	61	24
3802	Antique Mauve-VY DK	415	163	388	152	363	143
3803	Mauve-MD	35	14	33	13	31	12
3827	Golden Brown-Pale	3	1	3	1	3	1
3830	Terra Cotta-MD	16	6	15	5	14	5
3833	Raspberry-LT	41	15	38	14	35	14
3840	Lavender Blue-LT	41	15	38	14	35	14
3841	Baby Blue-Pale	41	15	38	14	35	14
3856	Mahogany-UL VY LT	9	3	8	3	8	3
3858	Rosewood-MD	163	64	152	60	143	56
3859	Rosewood-LT	93	36	86	34	81	32
3860	Cocoa	981	386	916	360	858	338
3861	Cocoa-LT	387	152	361	142	339	133
3862	Mocha Beige-DK	95	37	88	34	83	32
3863	Mocha Beige-MD	32	12	29	11	28	11
3864	Mocha Beige-LT	162	64	151	59	142	56
3865	Winter White	108	42	101	40	95	37
3866	Mocha Brown-UL VY LT	46	18	43	17	41	16

(10)

	60										70										80										90										100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
10	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆



$$(12) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

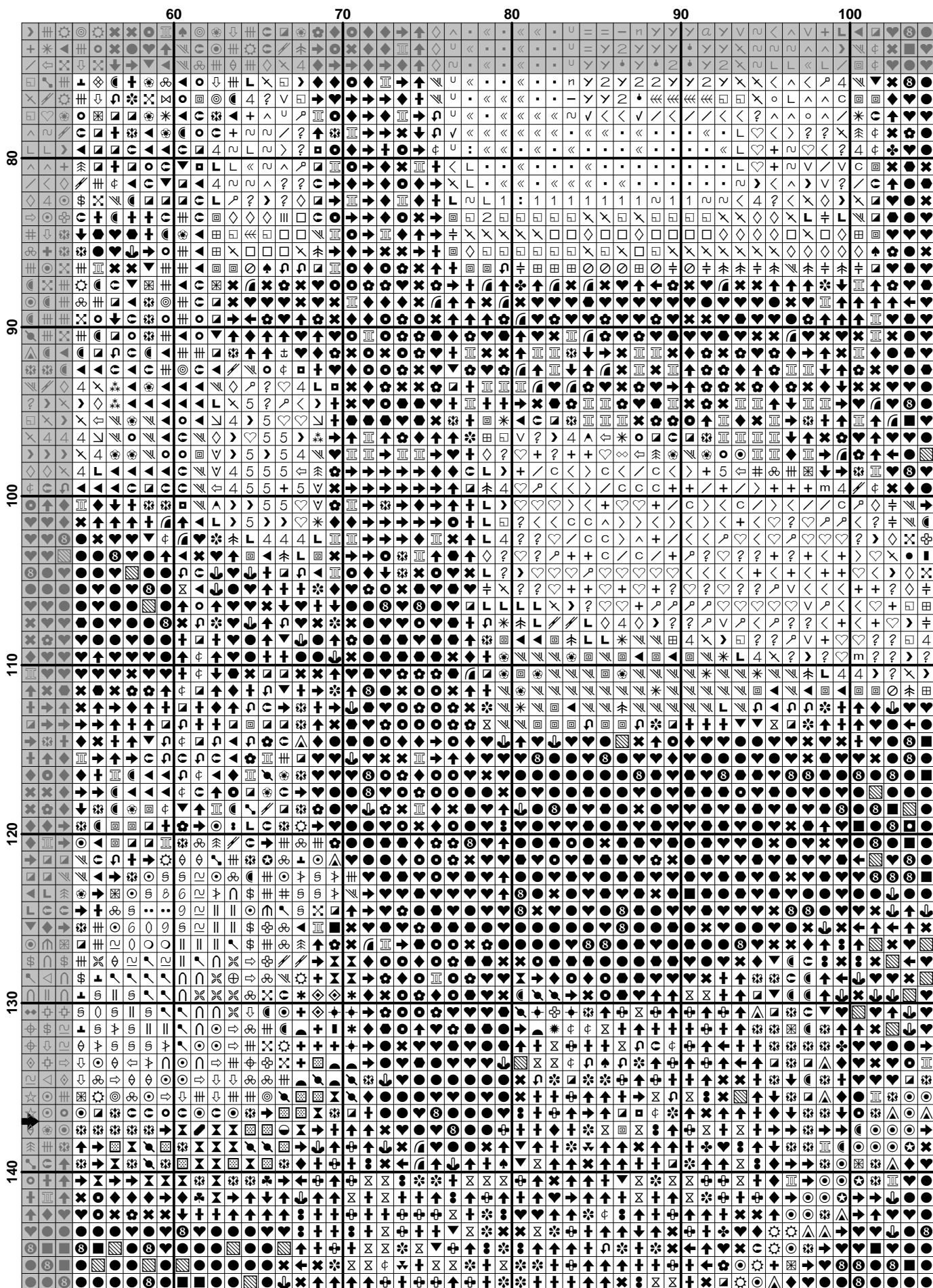
$$(13) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

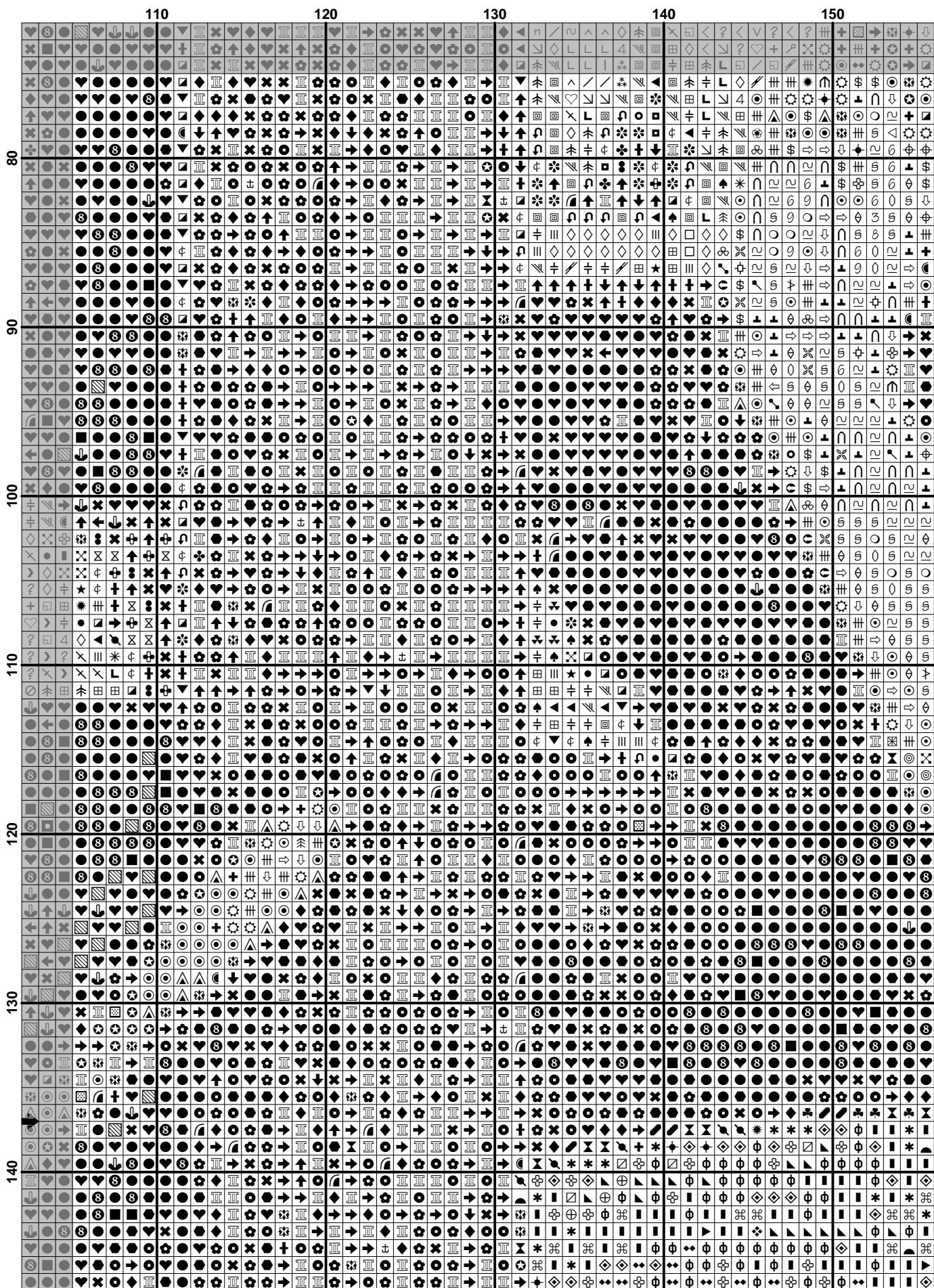
$$(14) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

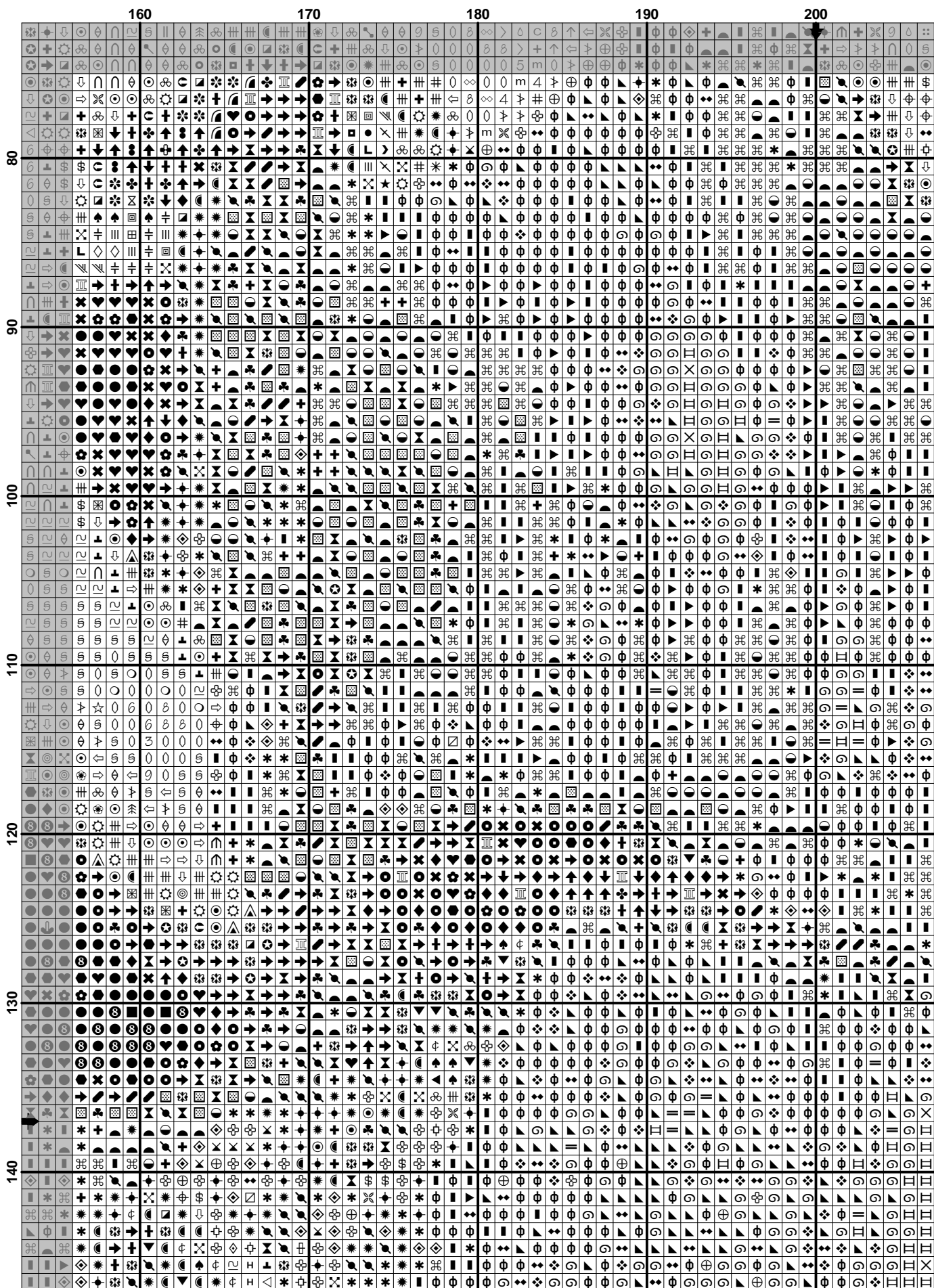
$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} \left(\sum_{k=0}^\infty \frac{(t-s)^k}{k!} f^{(k)}(s) \right) ds$$

(16)

	10	20	30	40	50
80	♠	♠	♠	♠	♠
81	♠	♠	♠	♠	♠
82	♠	♠	♠	♠	♠
83	♠	♠	♠	♠	♠
84	♠	♠	♠	♠	♠
85	♠	♠	♠	♠	♠
86	♠	♠	♠	♠	♠
87	♠	♠	♠	♠	♠
88	♠	♠	♠	♠	♠
89	♠	♠	♠	♠	♠
90	♠	♠	♠	♠	♠
91	♠	♠	♠	♠	♠
92	♠	♠	♠	♠	♠
93	♠	♠	♠	♠	♠
94	♠	♠	♠	♠	♠
95	♠	♠	♠	♠	♠
96	♠	♠	♠	♠	♠
97	♠	♠	♠	♠	♠
98	♠	♠	♠	♠	♠
99	♠	♠	♠	♠	♠
100	♠	♠	♠	♠	♠
101	♠	♠	♠	♠	♠
102	♠	♠	♠	♠	♠
103	♠	♠	♠	♠	♠
104	♠	♠	♠	♠	♠
105	♠	♠	♠	♠	♠
106	♠	♠	♠	♠	♠
107	♠	♠	♠	♠	♠
108	♠	♠	♠	♠	♠
109	♠	♠	♠	♠	♠
110	♠	♠	♠	♠	♠
111	♠	♠	♠	♠	♠
112	♠	♠	♠	♠	♠
113	♠	♠	♠	♠	♠
114	♠	♠	♠	♠	♠
115	♠	♠	♠	♠	♠
116	♠	♠	♠	♠	♠
117	♠	♠	♠	♠	♠
118	♠	♠	♠	♠	♠
119	♠	♠	♠	♠	♠
120	♠	♠	♠	♠	♠
121	♠	♠	♠	♠	♠
122	♠	♠	♠	♠	♠
123	♠	♠	♠	♠	♠
124	♠	♠	♠	♠	♠
125	♠	♠	♠	♠	♠
126	♠	♠	♠	♠	♠
127	♠	♠	♠	♠	♠
128	♠	♠	♠	♠	♠
129	♠	♠	♠	♠	♠
130	♠	♠	♠	♠	♠
131	♠	♠	♠	♠	♠
132	♠	♠	♠	♠	♠
133	♠	♠	♠	♠	♠
134	♠	♠	♠	♠	♠
135	♠	♠	♠	♠	♠
136	♠	♠	♠	♠	♠
137	♠	♠	♠	♠	♠
138	♠	♠	♠	♠	♠
139	♠	♠	♠	♠	♠
140	♠	♠	♠	♠	♠







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

