

593 The Cornfield



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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.

It is easiest to start in the center of the design. 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 thread 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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The Cornfield

Stitch Count	
Horizontal:	299
Vertical:	350

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	64	24.91	48	18.56	56	21.79	42	16.5	50	19.375
Including Margins:	70	28	80	31	64	25	72	28	58	23	66	26
	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	89	34.87	63	24.74	74	29.06	31	12.37	37	14.53
Including Margins:	91	36	105	41	79	31	90	36	47	19	53	21
	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	35	13.94	29	11.42	34	13.41	28	10.99	33	12.91
Including Margins:	46	18	51	20	45	18	50	20	44	17	49	19
	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	32	12.45	25	9.89	29	11.62	23	9.27	28	10.89
Including Margins:	43	17	48	19	41	16	45	18	39	16	44	17

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
●	300	Mahogany-VY DK
‡	369	Pistachio Green-VY LT
⌘	371	Mustard
⧵	407	Desert Sand-DK
⦶	420	Hazelnut Brown-DK
☆	469	Avocado Green
✕	470	Avocado Green-LT
⦶	503	Blue Green-MD
m	504	Blue Green-LT
●	520	Fern Green-DK
⦶	522	Fern Green
III	523	Fern Green-LT
⌘	524	Fern Green-VY LT
⧵	535	Ash Gray-VY LT
⦶	580	Moss Green-DK
⦶	581	Moss Green
●	610	Drab Brown-DK
*	611	Drab Brown
9	613	Drab Brown-VY LT
★	642	Beige Gray-DK
▼	645	Beaver Gray-VY DK
↓	647	Beaver Gray-MD
×	648	Beaver Gray-LT
○	676	Old Gold-LT
=	677	Old Gold-VY LT
⦶	680	Old Gold-DK
⦶	704	Chartreuse-BRT
::	712	Cream
⦶	729	Old Gold-MD
♣	730	Olive Green-VY DK
✕	731	Olive Green-DK
⌘	733	Olive Green-MD
⌘	734	Olive Green-LT
↑	738	Tan-VY LT
⦶	739	Tan-UL VY LT
L	746	Off White
3	754	Peach-LT
†	780	Topaz-UL VY DK
⧵	822	Beige Gray-LT
✕	830	Golden Olive-DK
⦶	832	Golden Olive
L	833	Golden Olive-LT
4	834	Golden Olive-VY LT
➔	869	Hazelnut Brown-VY DK

●	898	Coffee Brown-VY DK
	928	Gray Green-VY LT
■	934	Black Avocado Green
●	935	Avocado Green-DK
↓	936	Avocado Green-VY DK
*	937	Avocado Green-MD
■	938	Coffee Brown-UL DK
2	945	Tawny
↑	993	Aquamarine-LT
✕	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
∇	3033	Mocha Brown-VY LT
⦶	3045	Yellow Beige-DK
▷	3046	Yellow Beige-MD
◆	3051	Green Gray-DK
⦶	3052	Green Gray-MD
β	3072	Beaver Gray-VY LT
●	3346	Hunter Green
✕	3347	Yellow Green-MD
↔	3348	Yellow Green-LT
⦶	3362	Pine Green-DK
⦶	3363	Pine Green-MD
⦶	3364	Pine Green
τ	3753	Antique Blue-UL VY LT
/	3770	Tawny-VY LT
✕	3781	Mocha Brown-DK
//	3782	Mocha Brown-LT
↓	3787	Brown Gray-DK
■	3790	Beige Gray-UL DK
⦶	3813	Blue Green-LT
○	3816	Celadon Green-MD
Z	3817	Celadon Green-LT
S	3820	Straw-DK
☾	3826	Golden Brown
≡	3827	Golden Brown-Pale
⦶	3828	Hazelnut Brown
†	3829	Old Gold-VY DK
●	3830	Terra Cotta-MD
∞	3855	Autumn Gold-LT
▲	3862	Mocha Beige-DK
•	3865	Winter White
+	3866	Mocha Brown-UL VY LT
e	Ecu	Ecu

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

Symbol	DMC1	Name1	DMC2	Name2
>	762	Pearl Gray-VY LT	712	Cream
⊗	934	Black Avocado Green	935	Avocado Green-DK
↖	503	Blue Green-MD	3817	Celadon Green-LT
■	581	Moss Green	3346	Hunter Green
*	522	Fern Green	647	Beaver Gray-MD
⋈	504	Blue Green-LT	932	Antique Blue-LT
√	712	Cream	3753	Antique Blue-UL VY LT
(712	Cream	3865	Winter White
5	3072	Beaver Gray-VY LT	3024	Brown Gray-VY LT
↓	3024	Brown Gray-VY LT	504	Blue Green-LT
◇	928	Gray Green-VY LT	3813	Blue Green-LT
⬆	647	Beaver Gray-MD	3813	Blue Green-LT
⋈	3363	Pine Green-MD	469	Avocado Green
↑	580	Moss Green-DK	3051	Green Gray-DK
♥	520	Fern Green-DK	935	Avocado Green-DK
⊗	3362	Pine Green-DK	3346	Hunter Green
⊗	371	Mustard	3364	Pine Green
♦♦	611	Drab Brown	3364	Pine Green
¼	733	Olive Green-MD	734	Olive Green-LT
▨	936	Avocado Green-VY DK	3021	Brown Gray-VY DK
←	3011	Khaki Green-DK	3781	Mocha Brown-DK
↖	420	Hazelnut Brown-DK	869	Hazelnut Brown-VY DK
⊗	936	Avocado Green-VY DK	898	Coffee Brown-VY DK
♠	731	Olive Green-DK	3012	Khaki Green-MD
⊗	3011	Khaki Green-DK	3363	Pine Green-MD
**	731	Olive Green-DK	830	Golden Olive-DK
⊗	3829	Old Gold-VY DK	832	Golden Olive

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

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
300	Mahogany-VY DK	1	1	1	1	1	1
369	Pistachio Green-VY LT	57	22	55	21	49	19
371	Mustard	495	194	471	185	424	166
407	Desert Sand-DK	10	3	9	3	8	3
420	Hazelnut Brown-DK	379	149	361	142	325	127
469	Avocado Green	126	49	120	47	108	42
470	Avocado Green-LT	55	21	52	20	47	18
503	Blue Green-MD	201	79	192	75	173	68
504	Blue Green-LT	331	130	315	124	284	111
520	Fern Green-DK	696	274	663	261	597	235
522	Fern Green	217	85	207	81	186	73
523	Fern Green-LT	90	35	86	33	77	30
524	Fern Green-VY LT	136	53	129	50	116	45
535	Ash Gray-VY LT	73	28	69	27	62	24
580	Moss Green-DK	502	197	478	188	431	169
581	Moss Green	148	58	141	55	127	50
610	Drab Brown-DK	261	102	248	97	224	88
611	Drab Brown	701	275	667	262	601	236
613	Drab Brown-VY LT	182	71	173	68	156	61
642	Beige Gray-DK	85	33	81	31	73	28
645	Beaver Gray-VY DK	73	28	70	27	63	24
647	Beaver Gray-MD	197	77	187	73	168	66
648	Beaver Gray-LT	138	54	131	51	118	46
676	Old Gold-LT	60	23	58	22	52	20
677	Old Gold-VY LT	12	4	11	4	10	3
680	Old Gold-DK	103	40	98	38	88	34
704	Chartreuse-BRT	16	6	16	6	14	5
712	Cream	1614	635	1537	605	1383	544
729	Old Gold-MD	80	31	77	30	69	27
730	Olive Green-VY DK	372	146	355	139	319	125
731	Olive Green-DK	1160	456	1105	435	994	391
733	Olive Green-MD	176	69	167	65	151	59
734	Olive Green-LT	114	44	108	42	97	38
738	Tan-VY LT	81	31	77	30	69	27
739	Tan-UL VY LT	47	18	45	17	40	15
746	Off White	218	85	208	81	187	73
754	Peach-LT	1	1	1	1	1	1
762	Pearl Gray-VY LT	323	127	307	120	276	108
780	Topaz-UL VY DK	4	1	4	1	4	1
822	Beige Gray-LT	128	50	122	48	109	42
830	Golden Olive-DK	664	261	633	249	569	224
832	Golden Olive	273	107	260	102	234	92
833	Golden Olive-LT	67	26	63	24	57	22
834	Golden Olive-VY LT	70	27	67	26	60	23
869	Hazelnut Brown-VY DK	254	100	242	95	217	85
898	Coffee Brown-VY DK	321	126	306	120	275	108
928	Gray Green-VY LT	127	50	121	47	109	42
932	Antique Blue-LT	20	7	19	7	17	6
934	Black Avocado Green	296	116	282	111	254	100
935	Avocado Green-DK	1159	456	1104	434	993	390
936	Avocado Green-VY DK	1077	424	1025	403	923	363
937	Avocado Green-MD	147	57	140	55	126	49
938	Coffee Brown-UL DK	98	38	93	36	84	33

945	Tawny	7	2	7	2	6	2
993	Aquamarine-LT	8	3	8	3	7	2
3011	Khaki Green-DK	2550	1003	2428	955	2185	860
3012	Khaki Green-MD	1288	507	1227	483	1104	434
3013	Khaki Green-LT	222	87	212	83	191	75
3021	Brown Gray-VY DK	759	298	723	284	650	255
3024	Brown Gray-VY LT	901	354	859	338	773	304
3032	Mocha Brown-MD	60	23	58	22	52	20
3033	Mocha Brown-VY LT	128	50	122	48	110	43
3045	Yellow Beige-DK	191	75	182	71	164	64
3046	Yellow Beige-MD	71	27	67	26	60	23
3051	Green Gray-DK	1575	620	1500	590	1350	531
3052	Green Gray-MD	259	101	247	97	222	87
3072	Beaver Gray-VY LT	1091	429	1039	409	935	368
3346	Hunter Green	336	132	320	125	288	113
3347	Yellow Green-MD	52	20	49	19	44	17
3348	Yellow Green-LT	72	28	68	26	61	24
3362	Pine Green-DK	924	363	880	346	792	311
3363	Pine Green-MD	720	283	685	269	617	242
3364	Pine Green	383	150	365	143	328	129
3753	Antique Blue-UL VY LT	252	99	240	94	216	85
3770	Tawny-VY LT	10	3	9	3	8	3
3781	Mocha Brown-DK	974	383	928	365	835	328
3782	Mocha Brown-LT	85	33	81	31	73	28
3787	Brown Gray-DK	283	111	270	106	243	95
3790	Beige Gray-UL DK	109	42	104	40	94	37
3813	Blue Green-LT	96	37	91	35	82	32
3816	Celadon Green-MD	56	22	53	20	48	18
3817	Celadon Green-LT	62	24	59	23	53	20
3820	Straw-DK	9	3	9	3	8	3
3826	Golden Brown	7	2	6	2	6	2
3827	Golden Brown-Pale	37	14	35	13	32	12
3828	Hazelnut Brown	165	64	158	62	142	55
3829	Old Gold-VY DK	180	70	172	67	154	60
3830	Terra Cotta-MD	3	1	2	1	2	1
3855	Autumn Gold-LT	7	2	6	2	6	2
3862	Mocha Beige-DK	191	75	181	71	163	64
3865	Winter White	164	64	156	61	140	55
3866	Mocha Brown-UL VY LT	704	277	671	264	604	237
Ecu	Ecu	261	102	248	97	224	88

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
300	Mahogany-VY DK	2	2	2	2	1	1
369	Pistachio Green-VY LT	88	34	74	29	37	14
371	Mustard	763	299	636	249	318	125
407	Desert Sand-DK	14	5	12	5	6	2
420	Hazelnut Brown-DK	585	229	488	191	244	95
469	Avocado Green	194	76	162	63	81	32
470	Avocado Green-LT	85	32	71	27	35	14
503	Blue Green-MD	311	122	260	102	130	51
504	Blue Green-LT	511	200	426	167	213	83
520	Fern Green-DK	1075	423	896	353	448	176
522	Fern Green	335	131	279	110	140	55
523	Fern Green-LT	139	54	116	45	58	23

524	Fern Green-VY LT	209	81	174	68	87	34
535	Ash Gray-VY LT	112	43	93	36	47	18
580	Moss Green-DK	776	304	647	254	323	127
581	Moss Green	229	90	191	75	95	38
610	Drab Brown-DK	403	158	336	132	168	66
611	Drab Brown	1082	425	902	354	451	177
613	Drab Brown-VY LT	281	110	234	92	117	46
642	Beige Gray-DK	131	50	110	42	55	21
645	Beaver Gray-VY DK	113	43	95	36	47	18
647	Beaver Gray-MD	302	119	252	99	126	50
648	Beaver Gray-LT	212	83	177	69	89	35
676	Old Gold-LT	94	36	78	30	39	15
677	Old Gold-VY LT	18	5	15	5	8	2
680	Old Gold-DK	158	61	132	51	66	26
704	Chartreuse-BRT	25	9	21	8	11	4
712	Cream	2489	979	2075	816	1037	408
729	Old Gold-MD	124	49	104	41	52	20
730	Olive Green-VY DK	574	225	479	188	239	94
731	Olive Green-DK	1789	704	1491	587	746	293
733	Olive Green-MD	272	106	227	89	113	44
734	Olive Green-LT	175	68	146	57	73	29
738	Tan-VY LT	124	49	104	41	52	20
739	Tan-UL VY LT	72	27	60	23	30	11
746	Off White	337	131	281	110	140	55
754	Peach-LT	2	2	2	2	1	1
762	Pearl Gray-VY LT	497	194	414	162	207	81
780	Topaz-UL VY DK	7	2	6	2	3	1
822	Beige Gray-LT	196	76	164	63	82	32
830	Golden Olive-DK	1024	403	854	336	427	168
832	Golden Olive	421	166	351	138	176	69
833	Golden Olive-LT	103	40	86	33	43	17
834	Golden Olive-VY LT	108	41	90	35	45	17
869	Hazelnut Brown-VY DK	391	153	326	128	163	64
898	Coffee Brown-VY DK	495	194	413	162	206	81
928	Gray Green-VY LT	196	76	164	63	82	32
932	Antique Blue-LT	31	11	26	9	13	5
934	Black Avocado Green	457	180	381	150	191	75
935	Avocado Green-DK	1787	702	1490	585	745	293
936	Avocado Green-VY DK	1661	653	1385	545	692	272
937	Avocado Green-MD	227	88	189	74	95	37
938	Coffee Brown-UL DK	151	59	126	50	63	25
945	Tawny	11	4	9	3	5	2
993	Aquamarine-LT	13	4	11	3	5	2
3011	Khaki Green-DK	3933	1548	3278	1290	1639	645
3012	Khaki Green-MD	1987	781	1656	651	828	326
3013	Khaki Green-LT	344	135	287	113	143	56
3021	Brown Gray-VY DK	1170	459	975	383	488	191
3024	Brown Gray-VY LT	1391	547	1160	456	580	228
3032	Mocha Brown-MD	94	36	78	30	39	15
3033	Mocha Brown-VY LT	198	77	165	65	83	32
3045	Yellow Beige-DK	295	115	246	96	123	48
3046	Yellow Beige-MD	108	41	90	35	45	17
3051	Green Gray-DK	2430	956	2025	797	1013	398
3052	Green Gray-MD	400	157	333	131	167	65
3072	Beaver Gray-VY LT	1683	662	1403	552	701	276
3346	Hunter Green	518	203	432	170	216	85
3347	Yellow Green-MD	79	31	66	26	33	13
3348	Yellow Green-LT	110	43	92	36	46	18
3362	Pine Green-DK	1426	560	1188	467	594	233

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3363	Pine Green-MD	1111	436	926	363	463	182
3364	Pine Green	590	232	492	194	246	97
3753	Antique Blue-UL VY LT	389	153	324	128	162	64
3770	Tawny-VY LT	14	5	12	5	6	2
3781	Mocha Brown-DK	1503	590	1253	492	626	246
3782	Mocha Brown-LT	131	50	110	42	55	21
3787	Brown Gray-DK	437	171	365	143	182	71
3790	Beige Gray-UL DK	169	67	141	56	71	28
3813	Blue Green-LT	148	58	123	48	62	24
3816	Celadon Green-MD	86	32	72	27	36	14
3817	Celadon Green-LT	95	36	80	30	40	15
3820	Straw-DK	14	5	12	5	6	2
3826	Golden Brown	11	4	9	3	5	2
3827	Golden Brown-Pale	58	22	48	18	24	9
3828	Hazelnut Brown	256	99	213	83	107	41
3829	Old Gold-VY DK	277	108	231	90	116	45
3830	Terra Cotta-MD	4	2	3	2	2	1
3855	Autumn Gold-LT	11	4	9	3	5	2
3862	Mocha Beige-DK	293	115	245	96	122	48
3865	Winter White	252	99	210	83	105	41
3866	Mocha Brown-UL VY LT	1087	427	906	356	453	178
Ecrú	Ecrú	403	158	336	132	168	66

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
300	Mahogany-VY DK	1	1	1	1	1	1
369	Pistachio Green-VY LT	35	14	34	13	33	13
371	Mustard	305	120	294	115	283	111
407	Desert Sand-DK	6	2	6	2	5	2
420	Hazelnut Brown-DK	234	91	225	88	217	85
469	Avocado Green	78	30	75	29	72	28
470	Avocado Green-LT	34	13	33	12	31	12
503	Blue Green-MD	125	49	120	47	115	45
504	Blue Green-LT	204	80	197	77	189	74
520	Fern Green-DK	430	169	413	163	398	157
522	Fern Green	134	53	129	51	124	49
523	Fern Green-LT	55	22	53	21	51	20
524	Fern Green-VY LT	84	32	80	31	77	30
535	Ash Gray-VY LT	45	17	43	17	41	16
580	Moss Green-DK	310	122	298	117	287	113
581	Moss Green	91	36	88	35	85	33
610	Drab Brown-DK	161	63	155	61	149	59
611	Drab Brown	433	170	416	163	401	157
613	Drab Brown-VY LT	112	44	108	42	104	41
642	Beige Gray-DK	53	20	51	19	49	19
645	Beaver Gray-VY DK	45	17	44	17	42	16
647	Beaver Gray-MD	121	48	116	46	112	44
648	Beaver Gray-LT	85	33	82	32	79	31
676	Old Gold-LT	37	14	36	14	35	13
677	Old Gold-VY LT	7	2	7	2	7	2
680	Old Gold-DK	63	24	61	24	59	23
704	Chartreuse-BRT	10	4	10	3	9	3
712	Cream	996	392	957	377	922	363
729	Old Gold-MD	50	19	48	19	46	18
730	Olive Green-VY DK	230	90	221	87	213	83

731	Olive Green-DK	716	282	688	271	663	261
733	Olive Green-MD	109	42	105	41	101	39
734	Olive Green-LT	70	27	67	26	65	25
738	Tan-VY LT	50	19	48	19	46	18
739	Tan-UL VY LT	29	11	28	10	27	10
746	Off White	135	53	129	51	125	49
754	Peach-LT	1	1	1	1	1	1
762	Pearl Gray-VY LT	199	78	191	75	184	72
780	Topaz-UL VY DK	3	1	3	1	3	1
822	Beige Gray-LT	78	30	75	29	73	28
830	Golden Olive-DK	410	161	394	155	379	149
832	Golden Olive	168	66	162	64	156	61
833	Golden Olive-LT	41	16	39	15	38	15
834	Golden Olive-VY LT	43	17	42	16	40	15
869	Hazelnut Brown-VY DK	156	61	150	59	145	57
898	Coffee Brown-VY DK	198	78	190	75	183	72
928	Gray Green-VY LT	78	30	75	29	73	28
932	Antique Blue-LT	12	4	12	4	11	4
934	Black Avocado Green	183	72	176	69	169	67
935	Avocado Green-DK	715	281	687	270	662	260
936	Avocado Green-VY DK	665	261	639	251	615	242
937	Avocado Green-MD	91	35	87	34	84	33
938	Coffee Brown-UL DK	60	24	58	23	56	22
945	Tawny	4	1	4	1	4	1
993	Aquamarine-LT	5	1	5	1	5	1
3011	Khaki Green-DK	1573	619	1513	595	1457	573
3012	Khaki Green-MD	795	312	764	300	736	289
3013	Khaki Green-LT	138	54	132	52	127	50
3021	Brown Gray-VY DK	468	184	450	177	433	170
3024	Brown Gray-VY LT	557	219	535	210	515	203
3032	Mocha Brown-MD	37	14	36	14	35	13
3033	Mocha Brown-VY LT	79	31	76	30	73	29
3045	Yellow Beige-DK	118	46	114	44	109	43
3046	Yellow Beige-MD	43	17	42	16	40	15
3051	Green Gray-DK	972	382	935	368	900	354
3052	Green Gray-MD	160	63	154	60	148	58
3072	Beaver Gray-VY LT	673	265	647	255	623	245
3346	Hunter Green	207	81	199	78	192	75
3347	Yellow Green-MD	32	12	30	12	29	11
3348	Yellow Green-LT	44	17	42	17	41	16
3362	Pine Green-DK	570	224	548	215	528	207
3363	Pine Green-MD	444	174	427	168	411	161
3364	Pine Green	236	93	227	89	219	86
3753	Antique Blue-UL VY LT	156	61	150	59	144	57
3770	Tawny-VY LT	6	2	6	2	5	2
3781	Mocha Brown-DK	601	236	578	227	557	219
3782	Mocha Brown-LT	53	20	51	19	49	19
3787	Brown Gray-DK	175	68	168	66	162	63
3790	Beige Gray-UL DK	68	27	65	26	63	25
3813	Blue Green-LT	59	23	57	22	55	21
3816	Celadon Green-MD	35	13	33	12	32	12
3817	Celadon Green-LT	38	14	37	14	35	13
3820	Straw-DK	6	2	6	2	5	2
3826	Golden Brown	4	1	4	1	4	1
3827	Golden Brown-Pale	23	9	22	8	21	8
3828	Hazelnut Brown	102	40	98	38	95	37
3829	Old Gold-VY DK	111	43	107	42	103	40
3830	Terra Cotta-MD	1	1	1	1	1	1
3855	Autumn Gold-LT	4	1	4	1	4	1

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3862	Mocha Beige-DK	117	46	113	44	109	43
3865	Winter White	101	40	97	38	93	37
3866	Mocha Brown-UL VY LT	435	171	418	164	403	158
Ecrú	Ecrú	161	63	155	61	149	59

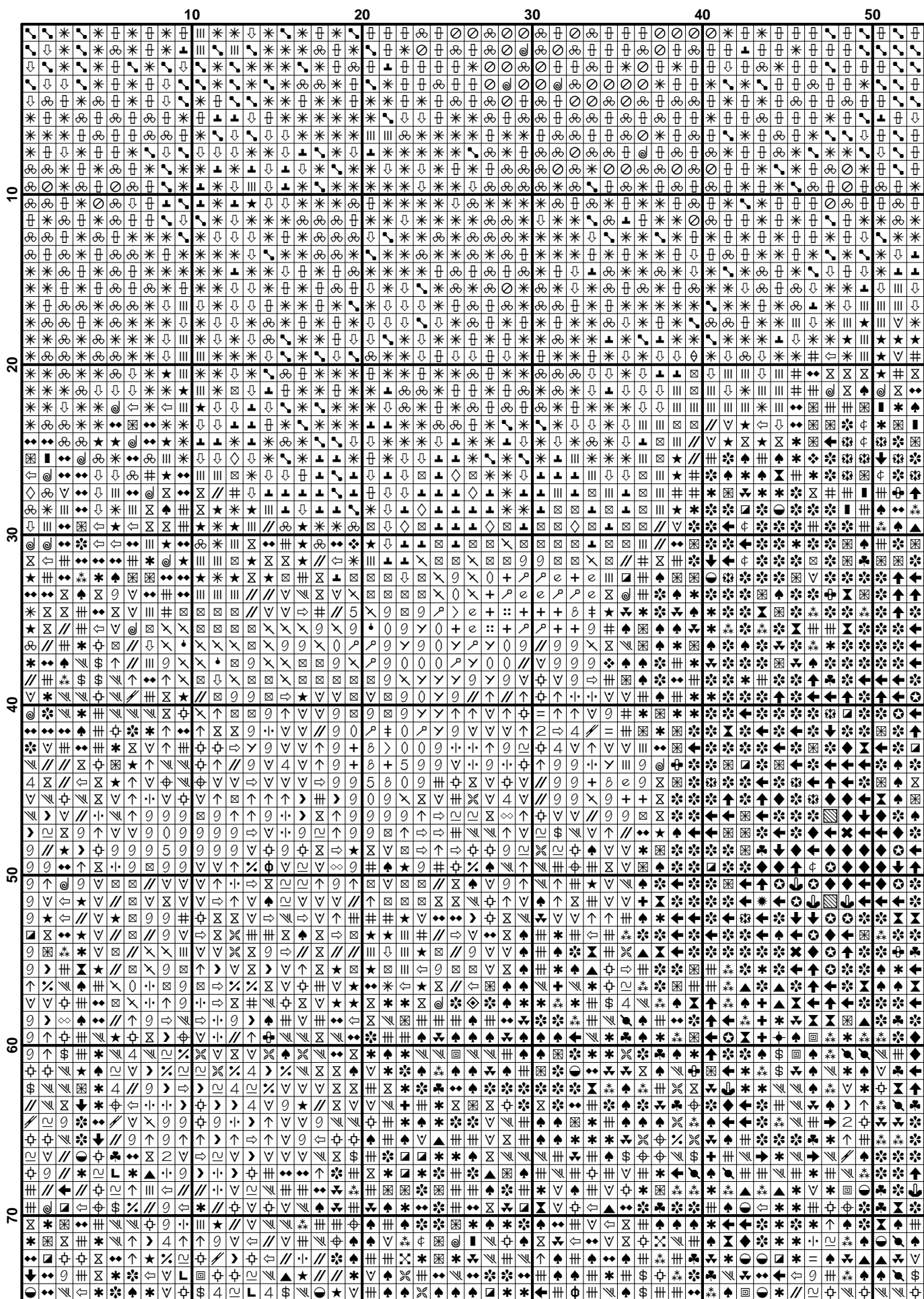
Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
300	Mahogany-VY DK	1	1	1	1	1	1
369	Pistachio Green-VY LT	32	12	29	11	28	11
371	Mustard	273	107	254	100	239	93
407	Desert Sand-DK	5	2	5	2	5	2
420	Hazelnut Brown-DK	209	82	195	76	183	71
469	Avocado Green	69	27	65	25	61	24
470	Avocado Green-LT	30	12	28	11	26	10
503	Blue Green-MD	111	44	104	41	97	38
504	Blue Green-LT	183	71	170	67	160	62
520	Fern Green-DK	384	151	358	141	336	132
522	Fern Green	120	47	112	44	105	41
523	Fern Green-LT	50	19	46	18	43	17
524	Fern Green-VY LT	75	29	70	27	65	25
535	Ash Gray-VY LT	40	15	37	14	35	14
580	Moss Green-DK	277	109	259	101	242	95
581	Moss Green	82	32	76	30	71	28
610	Drab Brown-DK	144	57	134	53	126	50
611	Drab Brown	386	152	361	142	338	133
613	Drab Brown-VY LT	100	39	94	37	88	34
642	Beige Gray-DK	47	18	44	17	41	16
645	Beaver Gray-VY DK	41	15	38	14	35	14
647	Beaver Gray-MD	108	42	101	40	95	37
648	Beaver Gray-LT	76	30	71	28	66	26
676	Old Gold-LT	33	13	31	12	29	11
677	Old Gold-VY LT	6	2	6	2	6	2
680	Old Gold-DK	57	22	53	20	50	19
704	Chartreuse-BRT	9	3	8	3	8	3
712	Cream	889	350	830	326	778	306
729	Old Gold-MD	44	17	41	16	39	15
730	Olive Green-VY DK	205	80	191	75	179	70
731	Olive Green-DK	639	251	596	235	559	220
733	Olive Green-MD	97	38	91	35	85	33
734	Olive Green-LT	62	24	58	23	55	21
738	Tan-VY LT	44	17	41	16	39	15
739	Tan-UL VY LT	26	10	24	9	23	8
746	Off White	120	47	112	44	105	41
754	Peach-LT	1	1	1	1	1	1
762	Pearl Gray-VY LT	177	69	166	65	155	61
780	Topaz-UL VY DK	3	1	2	1	2	1
822	Beige Gray-LT	70	27	65	25	61	24
830	Golden Olive-DK	366	144	341	134	320	126
832	Golden Olive	150	59	140	55	132	52
833	Golden Olive-LT	37	14	34	13	32	12
834	Golden Olive-VY LT	39	15	36	14	34	13
869	Hazelnut Brown-VY DK	140	55	130	51	122	48
898	Coffee Brown-VY DK	177	69	165	65	155	61
928	Gray Green-VY LT	70	27	65	25	61	24
932	Antique Blue-LT	11	4	10	4	10	3
934	Black Avocado Green	163	64	152	60	143	56

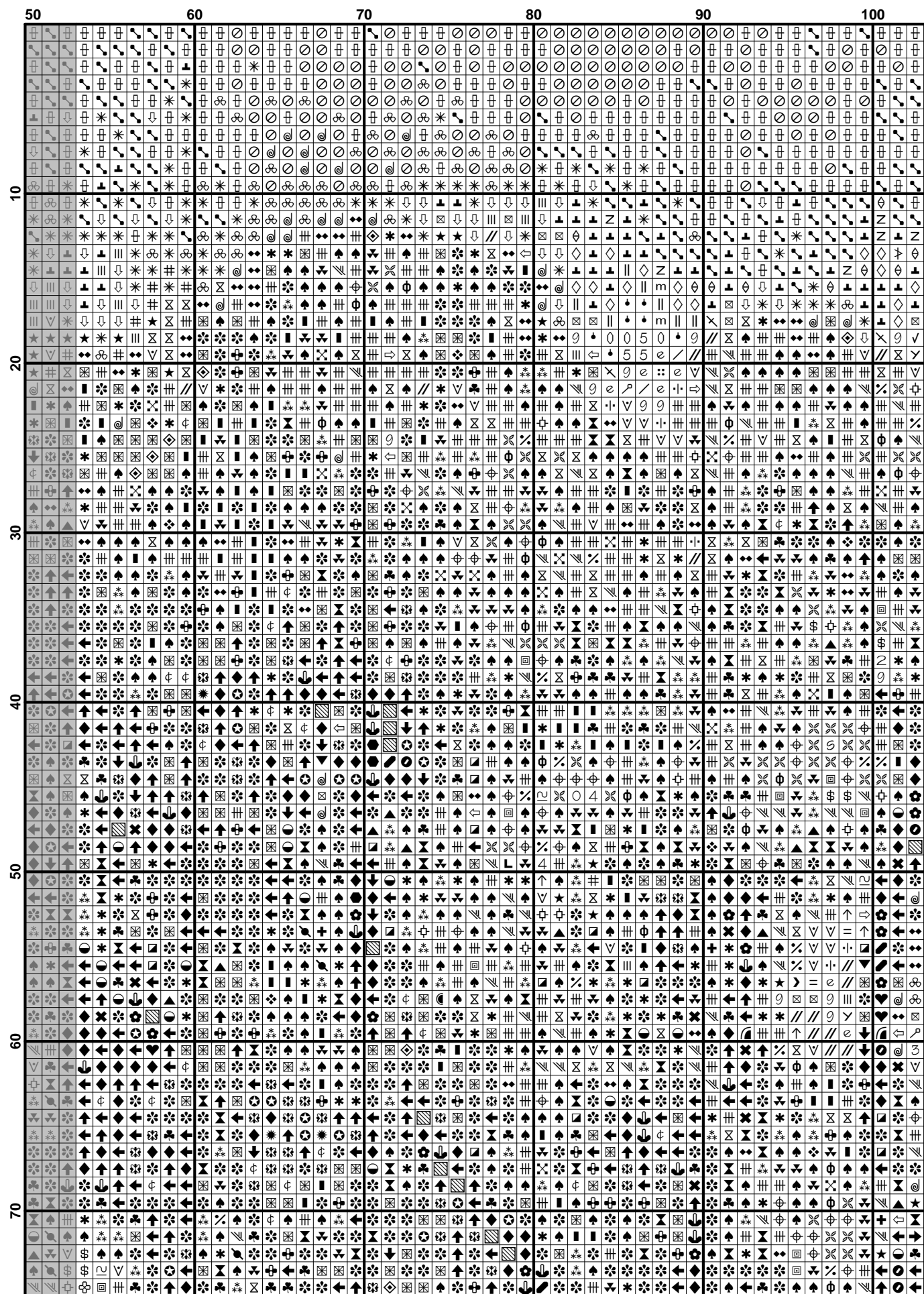
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935	Avocado Green-DK	638	251	596	234	559	219
936	Avocado Green-VY DK	593	233	554	218	519	204
937	Avocado Green-MD	81	32	76	29	71	28
938	Coffee Brown-UL DK	54	21	50	20	47	19
945	Tawny	4	1	4	1	3	1
993	Aquamarine-LT	5	1	4	1	4	1
3011	Khaki Green-DK	1405	553	1311	516	1229	484
3012	Khaki Green-MD	710	279	662	260	621	244
3013	Khaki Green-LT	123	48	115	45	107	42
3021	Brown Gray-VY DK	418	164	390	153	366	143
3024	Brown Gray-VY LT	497	195	464	182	435	171
3032	Mocha Brown-MD	33	13	31	12	29	11
3033	Mocha Brown-VY LT	71	28	66	26	62	24
3045	Yellow Beige-DK	105	41	98	38	92	36
3046	Yellow Beige-MD	39	15	36	14	34	13
3051	Green Gray-DK	868	341	810	319	759	299
3052	Green Gray-MD	143	56	133	52	125	49
3072	Beaver Gray-VY LT	601	237	561	221	526	207
3346	Hunter Green	185	73	173	68	162	64
3347	Yellow Green-MD	28	11	26	10	25	10
3348	Yellow Green-LT	39	15	37	14	34	14
3362	Pine Green-DK	509	200	475	187	446	175
3363	Pine Green-MD	397	156	370	145	347	136
3364	Pine Green	211	83	197	77	185	73
3753	Antique Blue-UL VY LT	139	55	130	51	122	48
3770	Tawny-VY LT	5	2	5	2	5	2
3781	Mocha Brown-DK	537	211	501	197	470	185
3782	Mocha Brown-LT	47	18	44	17	41	16
3787	Brown Gray-DK	156	61	146	57	137	53
3790	Beige Gray-UL DK	60	24	56	22	53	21
3813	Blue Green-LT	53	21	49	19	46	18
3816	Celadon Green-MD	31	12	29	11	27	10
3817	Celadon Green-LT	34	13	32	12	30	11
3820	Straw-DK	5	2	5	2	5	2
3826	Golden Brown	4	1	4	1	3	1
3827	Golden Brown-Pale	21	8	19	7	18	7
3828	Hazelnut Brown	91	35	85	33	80	31
3829	Old Gold-VY DK	99	39	92	36	87	34
3830	Terra Cotta-MD	1	1	1	1	1	1
3855	Autumn Gold-LT	4	1	4	1	3	1
3862	Mocha Beige-DK	105	41	98	38	92	36
3865	Winter White	90	35	84	33	79	31
3866	Mocha Brown-UL VY LT	388	152	362	142	340	133
Ecu	Ecu	144	57	134	53	126	50



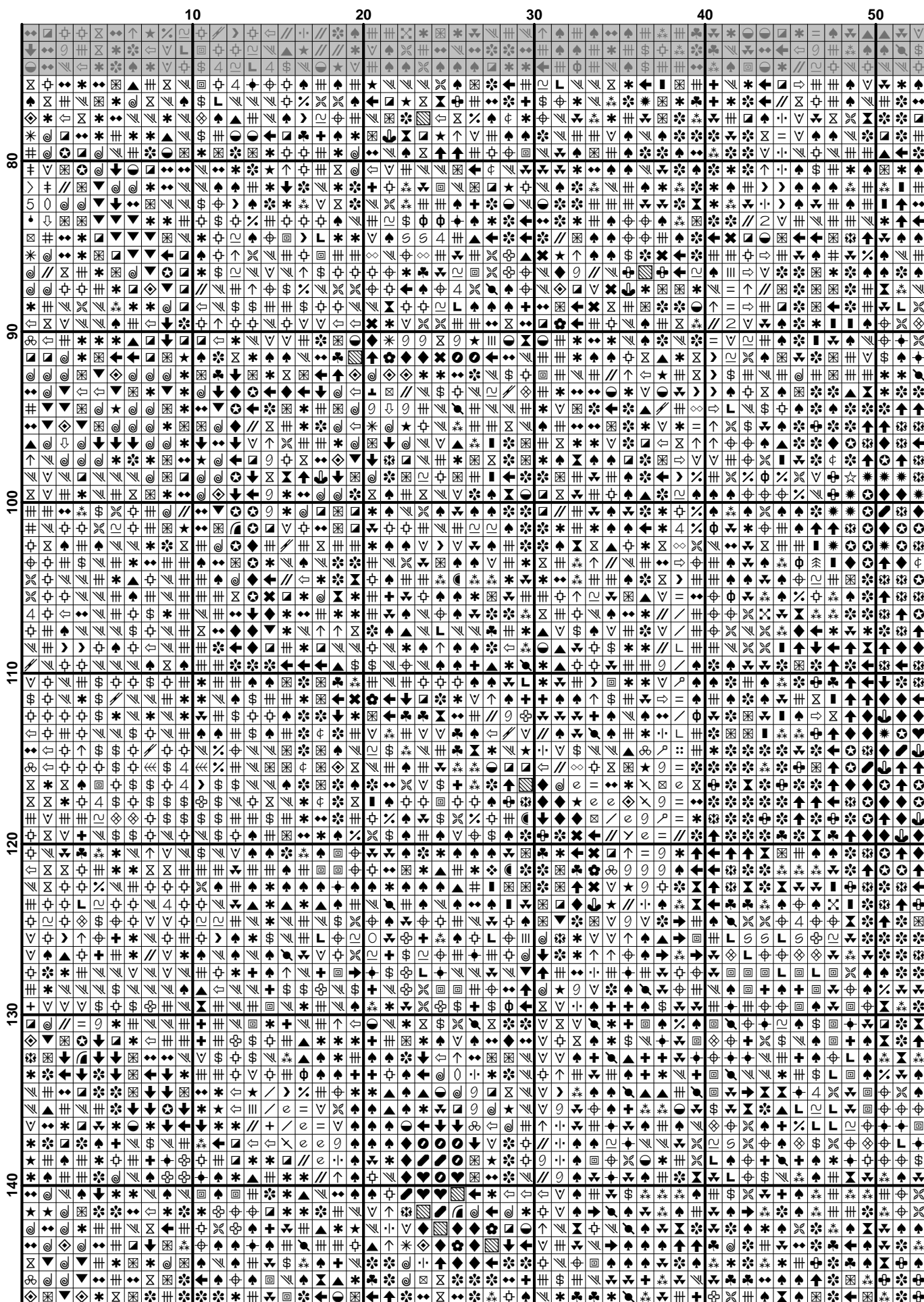


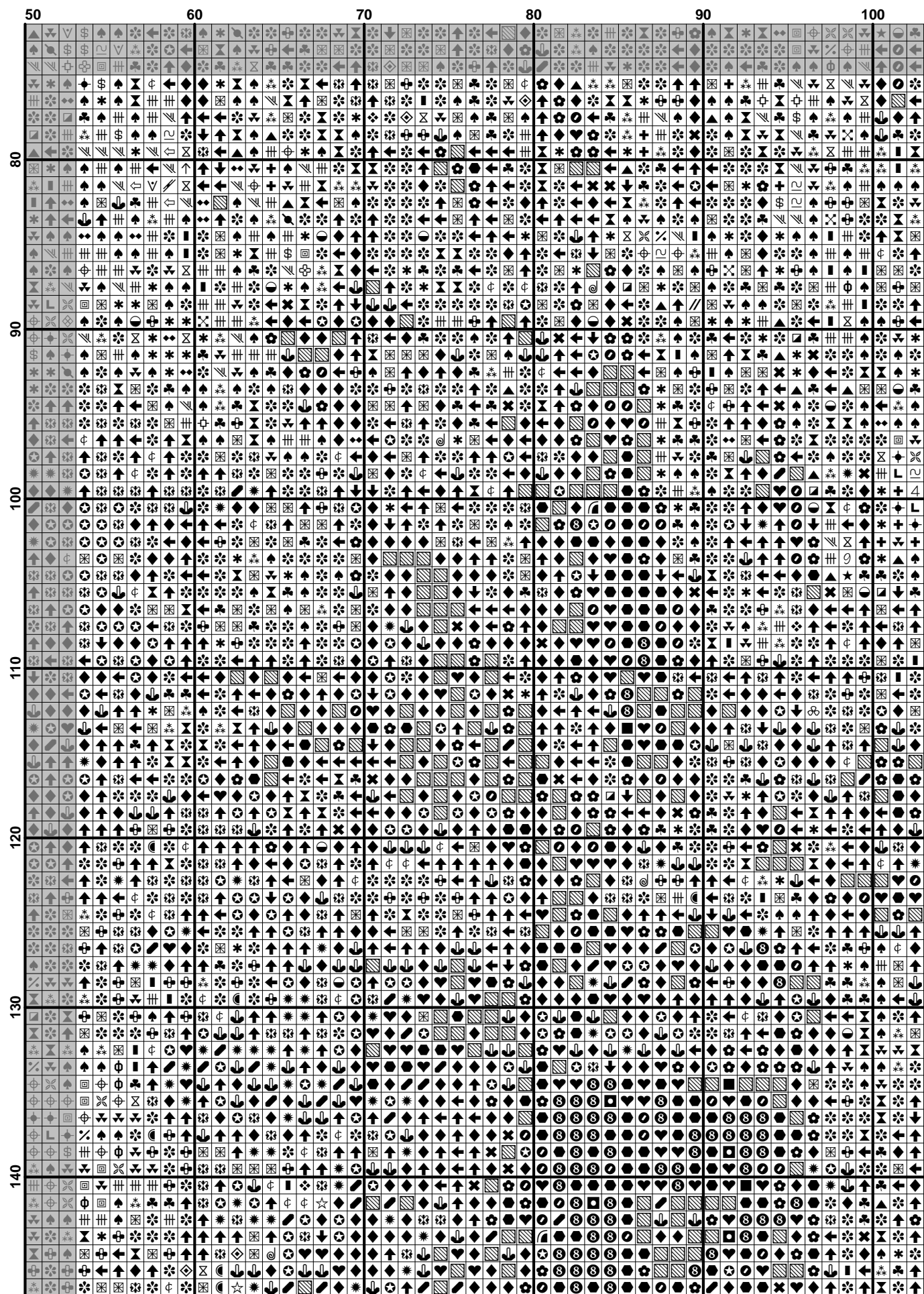
(10)

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

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

(12)





$$\begin{aligned} & \left(\frac{\partial}{\partial t} + \nabla_{\vec{v}} \cdot \vec{v} \right) f = - \nabla_{\vec{x}} \cdot (\vec{v} f) \\ & \left(\frac{\partial}{\partial t} + \nabla_{\vec{v}} \cdot \vec{v} \right) g = - \nabla_{\vec{x}} \cdot (\vec{v} g) \end{aligned} \tag{15}$$

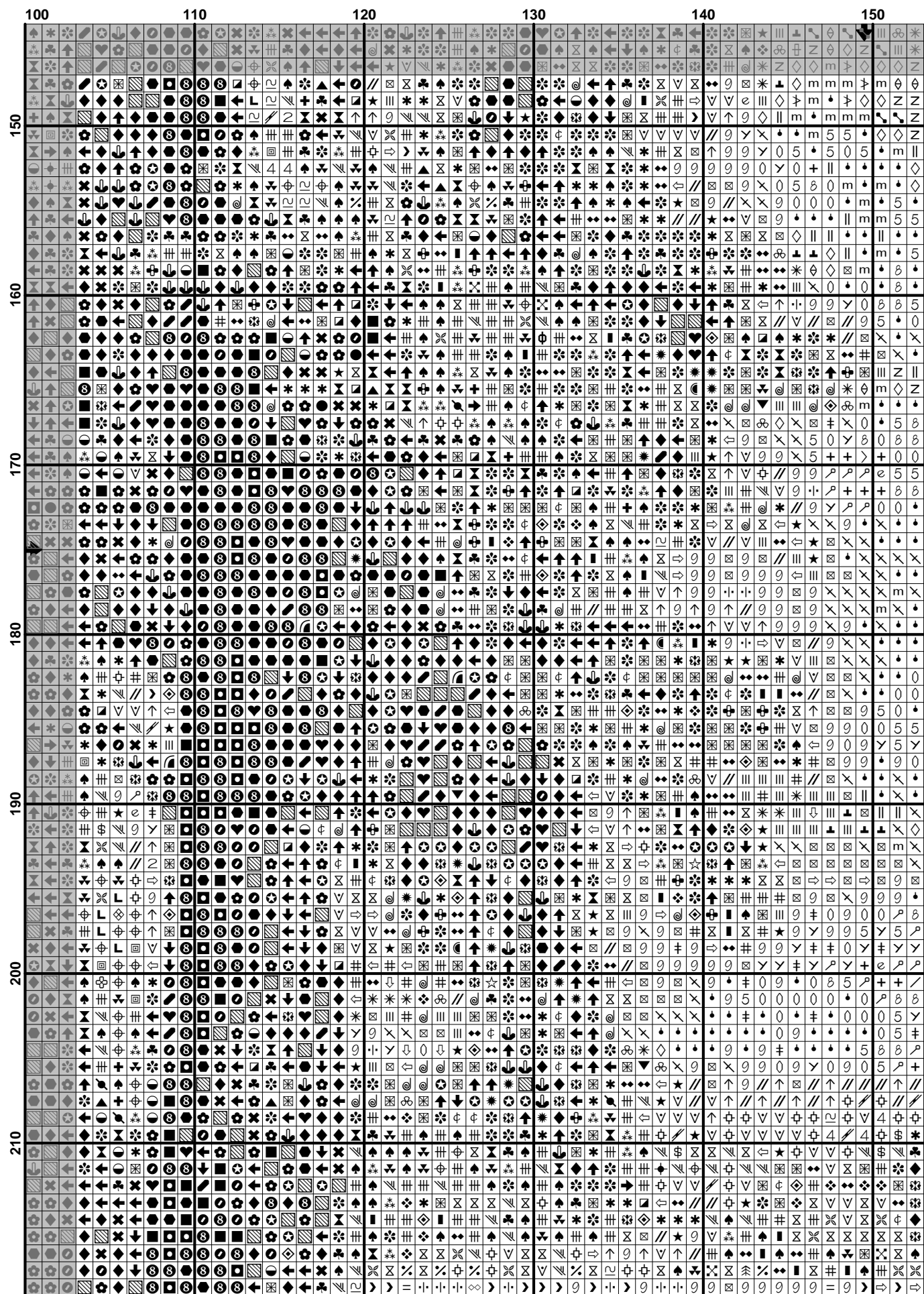
[illegible]

$$(17) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

(18)

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





	150	160	170	180	190	200
150	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *
160	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *
170	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *
180	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *
190	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *
200	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *
210	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *	III 8 *

