



LATTES & LLAMAS

ON BOARD

A GEEK-A-LONG SWEATER

STARTING JUNE 20, 2021

#GEEKALONG @LATTESANDLLAMAS

Release Schedule:

5/30 – Project Sheet and FAQ

6/6 – Practice Swatch 1

6/13 – Practice Swatch 2

June 20 & 27 – Clues 1-2

July – Clues 3, 4, 5, & 6

August – Clues 7, 8, 9, 10, & 11

September – Clues 12, 13, 14 & 15

October – Clues 16, 17, 18, 19 & 20

November – Clues 21, 22, 23 & 24



Planning your project

The 2021 Geek-A-Long sweater has been years in the making! I have 24 amazing weeks of double-knit goodness in store, but more than any other Geek-A-Long project this one will take some planning before you get started. The first step is to read the [2021 Geek-A-Long FAQ](#) on Lattes and Llamas. The information below will help you gather up the materials needed to cast on when the first clue drops on June 20th!

Yarn Requirements

Details about color choices are in the FAQ, but it is strongly recommended that you choose 3 solid colors with extremely strong contrast. I used white (main color), black (contrast color 1) and red (contrast color 2). Optional embellishments are added using duplicate stitch after knitting is complete and used 10g or less each of pink, blue, green, yellow, and purple. The yarn needed for both practice swatches **IS** included in the yardage listed below.

Recommended Yarn: Lattes & Llamas [Geek-A-Long Yarn](#) (100 grams/ 328 yards). Sample is knit with Baskerville (Cream) as MC, Palpatine (Black) as CC1, and Burning Love (red) as CC2.

Size	MC (White)		CC1 (black)		CC2 (red)	
	grams	yards	grams	yards	grams	yards
1	300	984	330	1082	95	312
2	330	1082	365	1197	105	344
3	360	1181	405	1328	120	394
4	415	1361	450	1476	130	426
5	450	1476	500	1640	145	476
6	495	1624	560	1837	160	525
7	550	1804	620	2034	180	590
8	605	1984	685	2247	200	656
9	665	2181	750	2460	220	722
10	730	2394	825	2706	240	787
11	800	2624	910	2985	265	869
12	880	2886	1000	3280	290	951
13	965	3165	1100	3608	320	1050
14	1060	3477	1210	3969	350	1148
15	1165	3821	1330	4362	385	1263

Tools

Notes: The 60” needles listed below are optional but recommended. Even on smaller sizes, there are a lot of stitches on your needles once you start the yoke, and the longer needles make working those rows much more comfortable. Sleeves will be worked in the round and can be worked in magic loop on (recommended) or on DPNs. If you prefer to work your sleeves on DPNs you will need DPNs in both US3 and 4.

Needles

- US4 / 3.5 mm 40” -and- 60” circular needles
- US3 / 3.25mm 40” circular needles

Notions

- **Stitch markers:** The pattern makes regular use of stitch markers, and they will be essential to keeping track of your double knit rows. You will want to have 16 stitch markers available to you, and tracking things will be simplest if you have multiple sets of 4 markers. For example, 4 purple markers, 4 green markers, etc... That’s not essential, any stitch markers (or even small loops of waste yarn) will do the job, but it will make things easier for you when working the yoke.
- **Cable holder -or- DPNs:** for holding stitches while working decreases. Double pointed needle (DPN) is recommended. You will need 2 of either the holder or the DPNs. If you use DPNs choose a size that is 1 or more sizes smaller than your smaller knitting needles. Ex: if your smaller needles are US3, the DPNs for decreases should be US1 or US2.
- **Optional Zipper.** This double knit cardigan is worked without buttonholes. It can be worn open, or with a sewn on zipper (added after the full sweater is complete). I recommend waiting until you are close to done with your sweater to make this choice.



Gauge and Sizing

Gauge

Please take the time to carefully check your gauge. The practice swatches that will be released ahead of the first clue are intended to both check gauge and practice some new stitches. Adjust your needle size as needed to meet gauge.

24 sts and 34 rounds = 4" in double knitting.
Gauge should be taken on a blocked swatch!

Sizing

1(2, 3, 4, 5) **6(7, 8, 9, 10)** 11(12, 13, 14, 15) = 30(33, 36, 38, 40)" **42(45, 48, 50, 53)"** 56(58, 61, 64, 67)" bust.

Note that these measurements are on the final blocked sweater and reflect the actual measurements of the sweater. You should account for your desired amount of ease when choosing a size. The On Board Sweater was designed to be worn with positive ease and if you are between sizes, I recommend sizing up rather than down.

All measurements are shown here in inches and are the final blocked length or circumference. **Note that the pattern includes instructions for adding length to the sleeves or body if desired.**

Size	Upper Arm	Bust	Body Length (hem to underarm)	Sleeve Length (cuff to underarm)
1	12	30	18	16
2	12.5	33	18	16
3	13	36	18	16
4	14	38	18	16
5	14.5	40	18	16
6	15	42	19	17
7	16	45	19	17
8	17	48	19	17
9	17.5	50	19	17
10	18	53	19	17
11	18.5	56	20	18
12	19	58	20	18
13	20	61	20	18
14	20.5	64	20	18
15	21	67	20	18

Abbreviations

BO	Bind Off
BoR	Beginning of Round
CO	Cast On
DST	Double Stitch. This refers to both the knit and the purl of each double stitch in double knitting.
K	Knit
K2tog	Knit 2 together. Decreases 1.
KFB	Knit Front and Back. Knit through the front of the st, then without slipping it off the needle, knit through the back loop of the same stitch. Increases 1.
M1	Make 1. Lift the bar between the st just worked and the st about to be worked and knit through the back loop of that bar.
M	Marker
P	Purl
R	Row/Round
Sl	Slip
SSK	Slip Slip Knit. Slip 2 sts as if to knit, then knit them together through the back loop. Decreases 1.
St/Sts	Stitch/Stitches.



Practice Swatches

A quick double knitting refresher

Both yarns are carried across each row. When double knitting you will work 2 sts for each square on the chart: A knit followed by a purl. The colors reverse on the wrong side (when working flat. When working in the round you do not need to reverse the colors on the wrong side because you won't be working with the wrong side facing you). If you work CC for the background and MC for the foreground on the right side, work MC for the background and CC for the foreground on the wrong side when working flat.

ALWAYS bring both colors forward before purling, and both colors to the back before knitting.

On the RS: Read the chart from Right to Left. When working in the round you will read every row of the chart from Right to Left.

On the WS: Read the chart from left to right.

ALWAYS purl with the color you did not knit with (so if the chart indicates that you should K with MC you will purl with CC).

Relax, have fun, and remind yourself that while double knitting may look complex when complete, it is really just glorified K1P1 ribbing. You've got this.

Helpful Links:

- [The 2021 Geek-A-Long FAQ](#)
- [Geek-A-Long Community on Ravelry](#)
- [How To Cast On for Double Knitting](#)
- [Double Knitting Basics](#)
- [How to Bind Off Double Knitting](#)
- [M1 Increase for Double Knitting](#)
- [KFB Increase for Double Knitting](#)
- [Cable Decrease for Double Knitting](#)
- [K2tog Decrease for Double Knitting](#)





Practice Swatch 1: Electric Company

With MC (white on my sample) and CC (black on my sample), cast on 31 sts for double knitting. *A note to newer double knitters: This really means to cast on 62 total sts. Each double knitting stitch is made up of 2 parts – a knit followed by a purl. When casting on, you must cast on 2 sts for each stitch on the chart.*

Work the Electric Company chart for 44 rows. Odd rows are Right Side rows and should be read from right to left. Even rows are Wrong Side rows and should be read from left to right. At the end of row 44, cast off all stitches.

Note: if you would like to work the log cabin edging shown in the sample photo, you should cut MC, bind off with CC, and do not cut CC when you reach the last stitch. Instead, leave it on your needle and proceed to the edging instructions.

Edging: The edging for my swatch was worked in log cabin stitching. You can work any edging you want, but this one worked well for my intended use of this swatch: a pot holder/trivet.

1. With CC, pick up and knit 31 sts along the left edge of the square. Here, you will want to pick up and knit 2 sts for every 3 edge stitches (so, pick up and knit the first edge stitch, then the second edge stitch, then skip over the 3rd, and repeat down the edge). 32sts – note: the extra stitch here is the one that was on your needle when you started picking up sts.
2. Turn, and K to the last 2 sts. K2tog. 31sts.
3. K 2 more rows.
4. Using a K2tog bind off, BO all sts until only 1 stitch remains on your needles.
5. Pick up and knit 2 sts from the garter ridge edge. Then pick up and knit 31 sts along the bottom of the square. 34sts.
6. Turn, and K to the last 2 sts. K2tog. 33sts.
7. K 2 more rows.
8. Using a K2tog bind off, BO all sts until only 1 stitch remains on your needles.
9. Pick up and knit 2 sts from the garter ridge edge. Then pick up and knit 31 sts along the right edge of the square. 34sts.
10. Turn, and K to the last 2 sts. K2tog. 33sts.
11. K 2 more rows.
12. Using a K2tog bind off, BO all sts until only 1 stitch remains on your needles.
13. Pick up and knit 2 sts from the garter ridge edge. Then pick up and knit 31 sts along the top of the square, then 2 sts along the garter ridge edge. 36sts.
14. Turn, and K to the last 2 sts. K2tog. 35sts.
15. K 2 more rows.
16. Using a K2tog bind off, BO all sts until only 1 stitch remains on your needles. Break yarn.
17. Repeat this process with an additional color if desired. When working this second color, you will pick up and work 35 sts along each edge rather than 31.



Practice Swatch 2: Railroad

Note: There are 2 basic techniques for working double knitting increases and decreases. This swatch was designed to let you try out both techniques for increasing and both techniques for decreasing. Video tutorials are available for each one (see links above). The On Board sweater will call for the KFB increase and the Cable Decrease, however you may swap those for the M1 Increase or K2tog Decrease if you prefer. I recommend trying out all 4 and choosing the method of increasing and decreasing that feels most comfortable for you when working the sweater.

Cast On: With MC (white on my sample) and CC (black on my sample), cast on 23 sts for double knitting. *A note to newer double knitters: This really means to cast on 46 total sts. Each double knitting stitch is made up of 2 parts – a knit followed by a purl. When casting on, you must cast on 2 sts for each stitch on the chart.*

Chart: Work the Railroad chart for 48 rows. Odd rows are Right Side rows and should be read from right to left. Even rows are Wrong Side rows and should be read from left to right.

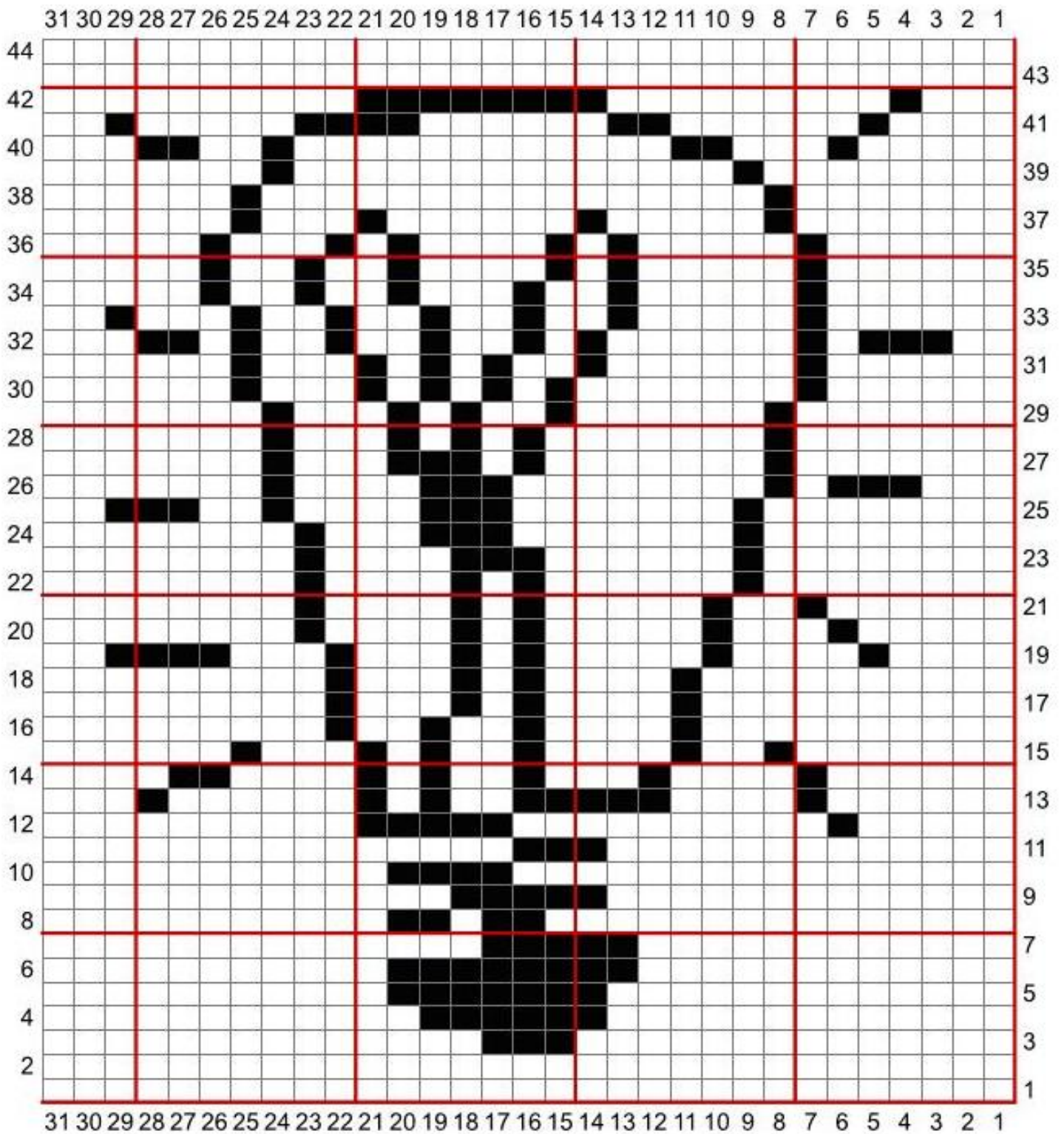
Edging: The edging will be worked by first picking up sts along each edge with MC, then joining to work in the round. You will pick up a total of 32 sts along the left and right edges. In step 2 below you will be instructed to pick up 16 sts, then place a marker and pick up 16 more. Make sure that as you pick up and knit sts along the edge that 16 sts brings you to the middle of the edge. You'll be picking up 2 sts for every 3 rows along those edges.

1. After completing row 48 of the Railroad Chart, break CC. With MC, work K2tog decreases across the row (knitting each knit together with it's adjacent purl). 23 sts. Place marker.
2. Pick up and knit 16 sts along the left edge. Place marker. Pick up and knit 16 sts along the remainder of the edge. Place marker.
3. Pick up and knit 23 sts along the cast on edge of the piece. Place marker.
4. Pick up and knit 16 sts along the right edge. Place marker. Pick up and knit 16 sts along
- the remainder of the right edge. Place marker and join to work in the round. Break MC, and join cc2 (red on my sample).
5. Purl all sts around, slipping markers when you come to them.
6. K1, M1 (make 1). *K to 1 st before the next marker. M1, K1, slip marker, K1, M1. Repeat around from * until you reach the last marker.
7. Purl all sts around, slipping markers when you come to them.

Repeat 6-7 twice more. Bind off.

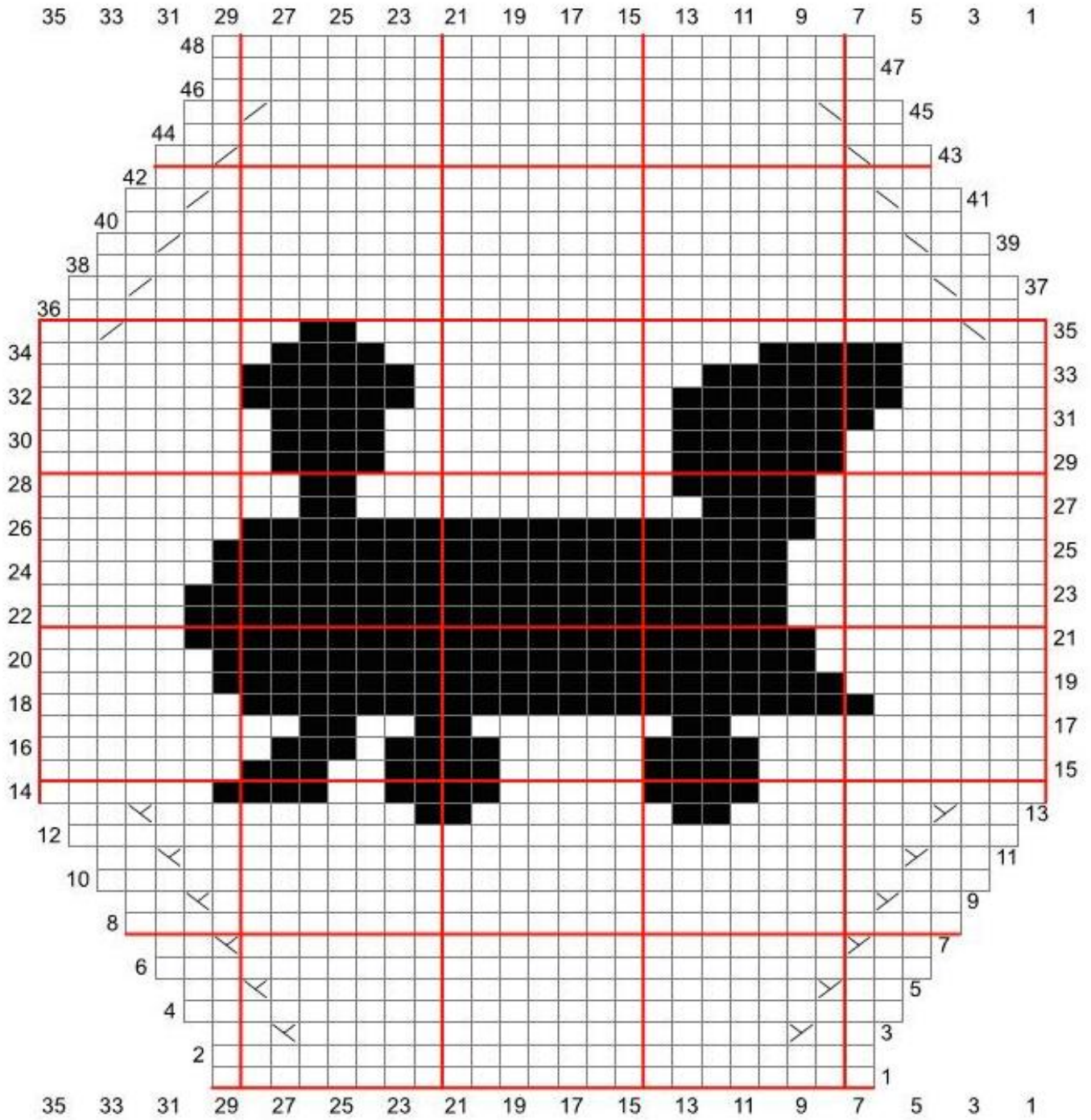


Practice Swatch 1: Electric Company





Practice Swatch 2: Railroad



	M1 Increase		Cable Decrease
	KFB Increase		K2tog Decrease



Sleeves

The sleeves are worked from the cuff up and placed onto holders while you work the body. The sleeves are then joined to the body before beginning the yoke, and the underarms are closed by grafting live sleeve sts to live body sts when you complete the finishing work on the sweater. **Note: The cast on and cuff are worked in standard knitting (not double knitting)!**

SLEEVE 1

Cast On: With CC2 and smaller needles, CO 52(52, 52, 60, 60) **60(64, 64, 64, 72)** 72(72, 76, 76, 76) sts using your favorite stretchy CO. Join to work in the round, taking care not to twist your sts. Place marker to indicate BoR.

Cuff: Work K2P2 ribbing for 20 rounds.

R1: K around, increasing 2(2, 2, 0, 0) **0(2, 2, 2, 0)** 0(0, 2, 2, 2) sts by M1. 54(54, 54, 60, 60) **60(66, 66, 66, 72)** 72(72, 78, 78, 78) sts.

R2: K around.

Double Knitting Set Up:

1. KFB all sts around.
2. K1P1 around. **Change to larger needles at the end of this round.**
3. Join CC1 (do not break CC2). Work 1 round of double knitting, with CC2 as the main (facing/Knit) color and CC1 as the wrong side (purl) color. 54(54, 54, 60, 60) **60(66, 66, 66, 72)** 72(72, 78, 78, 78) Double knitting sts.

Next: Work Chart 1 as follows. **If you would like to INCREASE** the length of the sleeve you can do so here by repeating rounds of this chart additional times. **If you would like to DECREASE** the length of your sleeves you can work this chart for fewer rounds than called for in your size.

Sizes 1-3: Work only the sts between the yellow borders for 24 rounds.

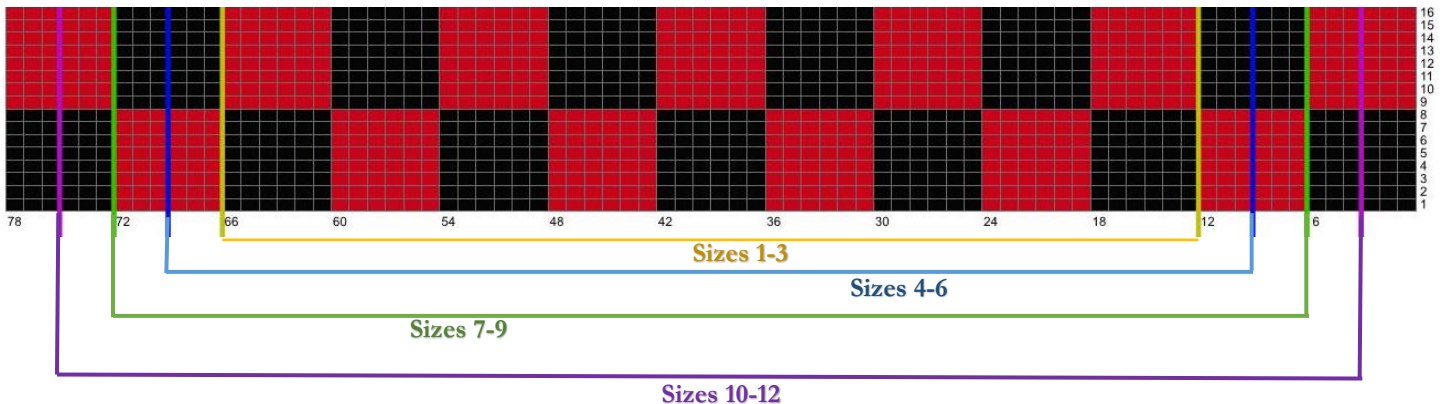
Sizes 4-6: Work only the sts between the blue borders for 32 rounds.

Sizes 7-9: Work only the sts between the green borders for 40 rounds.

Sizes 10-12: Work only the sts between the purple borders for 48 rounds.

Sizes 13-15: Work full chart for 48 rounds.

Chart 1





Break CC2, Join MC.


Next 26 rounds – Work Chart 2 as follows:

Round 1: Work the first 2 sts of chart 2, then work the red bordered repeat 1(1, 1, 4, 4) 4(7, 7, 7, 10) 10(10, 13, 13, 13) time(s). Place marker. Work chart across the next 48 sts. Place marker. Work the red bordered repeat 1(1, 1, 4, 4) 4(7, 7, 7, 10) 10(10, 13, 13, 13) time(s). Place marker. Work the last 2 sts of chart 2.

Rounds 2-26:

1. Work Chart 2 to the red repeat, noting that rounds 2, 10, 17, & 23 are increase rounds. Then, work the red bordered repeat to the first marker.
2. Work to the second marker.
3. Work the red bordered repeat to the maker, then work the remainder of chart 2 to the end of the round.

While working the last round of chart 2, remove the markers placed during round 1. 62(62, 62, 68, 68) 68(74, 74, 74, 80) 80(80, 86, 86, 86) sts



With cc1 KFB into the K of the double st. With mc KFB into the P of the double st.

Next 21 rounds - Work Chart 3 as follows:

Round 1: Work the first 3 sts of chart 3, then work the red bordered repeat over 0(0, 0, 3, 3) 3(6, 6, 6, 9) 9(9, 12, 12, 12) sts. Place marker. Work chart across the next 56 sts. Place marker. Work the 2nd red bordered repeat of chart 3 to the last 3 sts, then work the last 3 sts of chart 3.

Rounds 2-21:

1. Work Chart 3, repeating the red bordered repeat to the first Marker.
2. Work to the second marker.
3. Work the red bordered repeat to the last 3 sts, then work the last 3 sts of chart 3.

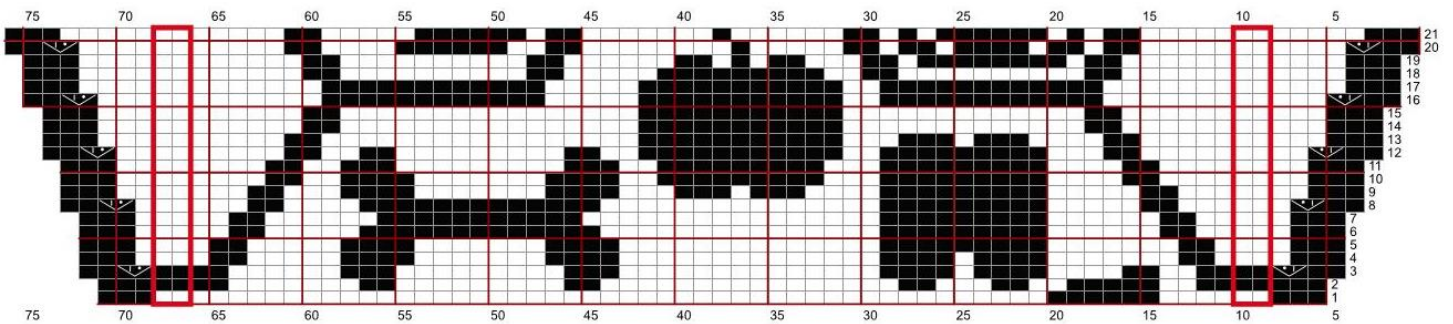


Chart 3

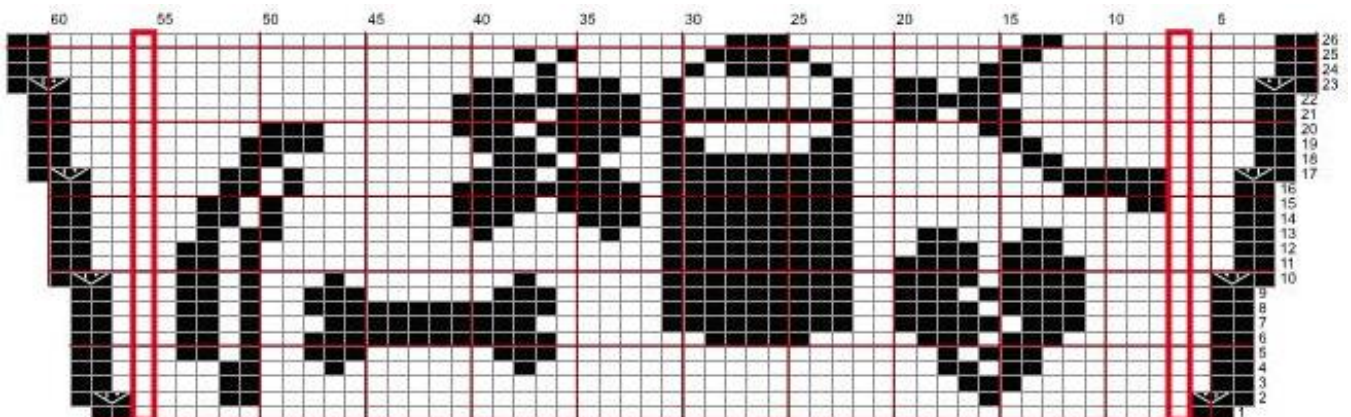


Chart 2



Next 49 rounds - Work Chart 4a-4e as indicated for your size. Note that most sizes will not work all of the increases. Chart 4e and the written instructions mark where you have worked the final increase for your size. To avoid accidentally working an additional increase and needing to tear back I recommend reading the instructions for your size, and marking with a pen or highlighter on the printed chart where your final increase is.

Note that on any given round you will work EITHER charts 4a and 4e or charts 4b and 4d, but you will never work both in the same round. All rounds will work chart 4c.

Before beginning this section, double check your work to make sure you have the expected number of sts, and that your markers are correctly placed. At the end of chart 3, you should have 72(72, 72, 78, 78) **78(84, 84, 84, 90)** 90(90, 96, 96, 96) double knit sts. You should have 2 markers set in addition to your Beginning of Round marker: One that is 8(8, 8, 11, 11) **11(14, 14, 14, 17)** 17(17, 20, 20, 20) sts after the BoR, and one that is 8(8, 8, 11, 11) **11(14, 14, 14, 17)** 17(17, 20, 20, 20) sts before the end of the round. There should be 56 sts between the markers. If you were working sizes 1-3 you might not have placed those markers as you were not previously repeating the red bordered repeat. You will be on this chart, and you will want the markers in place.

Size 1:

All 49 rounds: Work Chart 4b. Repeat the red bordered repeat of chart 4c to marker 1. Work 4c to the 2nd marker. Work the red bordered repeat to the last 3 sts, then work chart 4d.

Size 2-14:

Round 1: Work Chart 4a. Repeat the red bordered repeat of chart 4c to marker 1. Work 4c to the 2nd marker. Work the red bordered repeat to the last 3 sts, place marker. Work chart 4e to end.

Rounds 2- x(7, 12, 10, 14) 18(16, 20, 22, 20) 24(28, 26, 30, x): Work Chart 4a. Repeat the red bordered repeat of chart 4c to marker 1. Work 4c to the 2nd marker. Work the red bordered repeat to the last 3 sts, place marker. Work chart 4e to end. Remove 3rd marker on the last round of this step.

Remaining rounds through 49: Work Chart 4b. Repeat the red bordered repeat of chart 4c to marker 1. Work 4c to the 2nd marker. Work the red bordered repeat to the last 3 sts, then work chart 4d.

Size 15: *Final increase is on round 34.*

Round 1: Work Chart 4a. Repeat the red bordered repeat of chart 4c to marker 1. Work 4c to the 2nd marker. Work the red bordered repeat to the last 3 sts, place marker. Work chart 4e to end.

Rounds 2-49: Work Chart 4a. Repeat the red bordered repeat of chart 4c to marker 1. Work 4c to the 2nd marker. Work the red bordered repeat to the last 3 sts, place marker. Work chart 4e to end.

72(76, 80, 84, 88) **92(96, 100, 102, 106)** 110(114, 118, 122, 126) sts.

If you would like to INCREASE the length of the sleeve you can do so here by repeating round 49 to desired length.

Next - Move sleeve sts to waste yarn holders as follows. You will need 2 lengths of waste yarn for each sleeve. **Remove all markers as you come to them as you place sts on waste yarn holders.**

1. Working in double knitting in the same manner that you did for round 49 of chart 7 (with CC1 facing on the right side and MC facing on the wrong side) work 3(2, 4, 3, 4) **6(7, 6, 7, 6)** 10(9, 10, 9, 10) double knit sts.



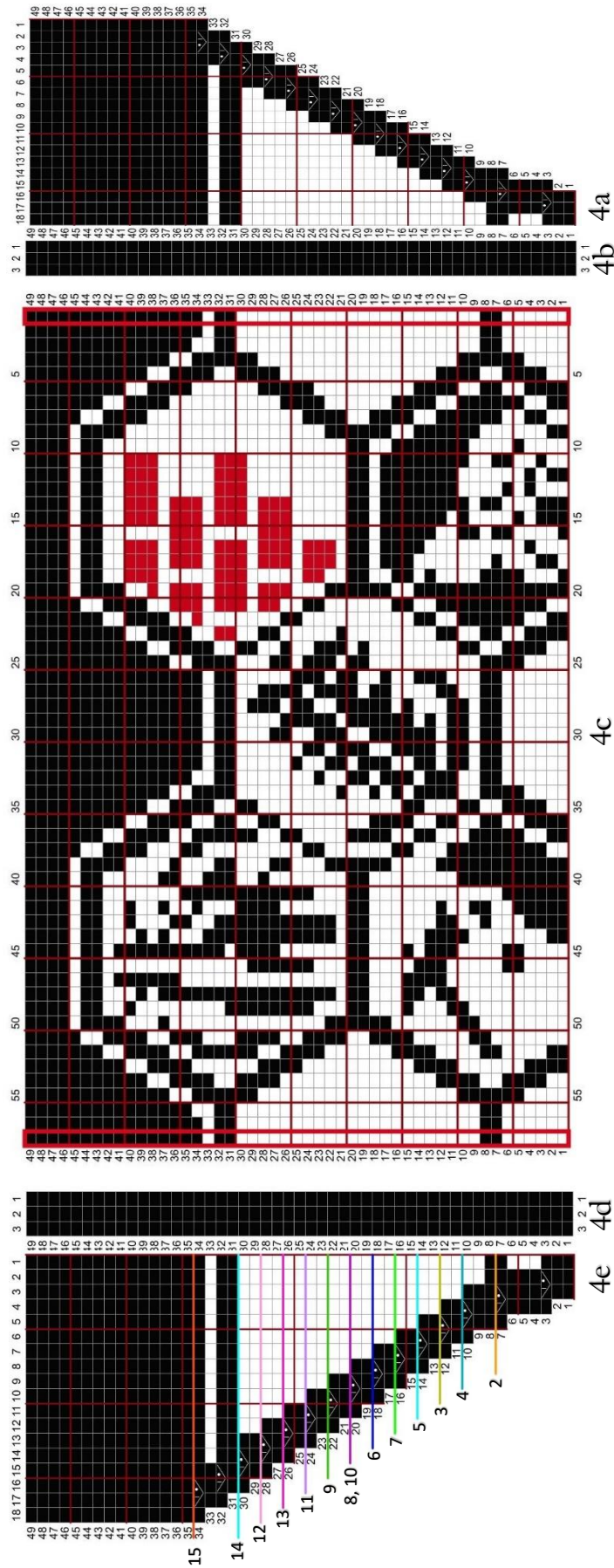
2. Break MC and CC1, leaving long ends of both colors for sewing (you will want these later when you join the sleeves to the sweater).
3. With the first piece of waste yarn threaded through the tapestry needle, transfer the last 6(4, 8, 6, 8) **12(14, 12, 13, 11)** 19(17, 19, 17, 19) sts worked to the waste yarn. Make sure to transfer both the K and the P of each DK stitch!
4. Transfer the remaining 66(72, 72, 78, 80) **80(82, 88, 89, 95)** 91(97, 99, 105, 107) sts to the second piece of waste yarn.

I recommend knotting the ends of each piece of waste yarn together to prevent the stitches from escaping your wooly bondage.

Note on completing chart 4:

Though the final execution is up to you, I opted to complete my chart by working the part with red sts “blank” (i.e. I knit all red sts with MC facing and CC1 on the wrong side). I then went back over that area with duplicate stitch to add CC2 for the bricks. A tutorial on Duplicate stitch for double knitting is available [HERE](#).







SLEEVE 2

Cast On: With CC2 and smaller needles, CO 52(52, 52, 60, 60) 60(64, 64, 64, 72) 72(72, 76, 76, 76) sts using your favorite stretchy CO. Join to work in the round, taking care not to twist your sts. Place marker to indicate BoR.

Cuff: Work K2P2 ribbing for 20 rounds.

R1: K around, increasing 2(2, 2, 0, 0) 0(2, 2, 2, 0) 0(0, 2, 2, 2) sts by M1. 54(54, 54, 60, 60) 60(66, 66, 66, 72) 72(72, 78, 78, 78) sts.

R2: K around.

Double Knitting Set Up:

1. KFB all sts around.
2. K1P1 around. **Change to larger needles at the end of this round.**
3. Join CC1 (do not break CC2). Work 1 round of double knitting, with CC2 as the main (facing/Knit) color and CC1 as the wrong side (purl) color. 54(54, 54, 60, 60) 60(66, 66, 66, 72) 72(72, 78, 78, 78) Double knitting sts.

Next: Work Chart 1 as follows. If you would like to **INCREASE** the length of the sleeve you can do so here by repeating rounds of this chart additional times. If you would like to **DECREASE** the length of your sleeves you can work this chart for fewer rounds than called for in your size.

Sizes 1-3: Work only the sts between the yellow borders for 24 rounds.

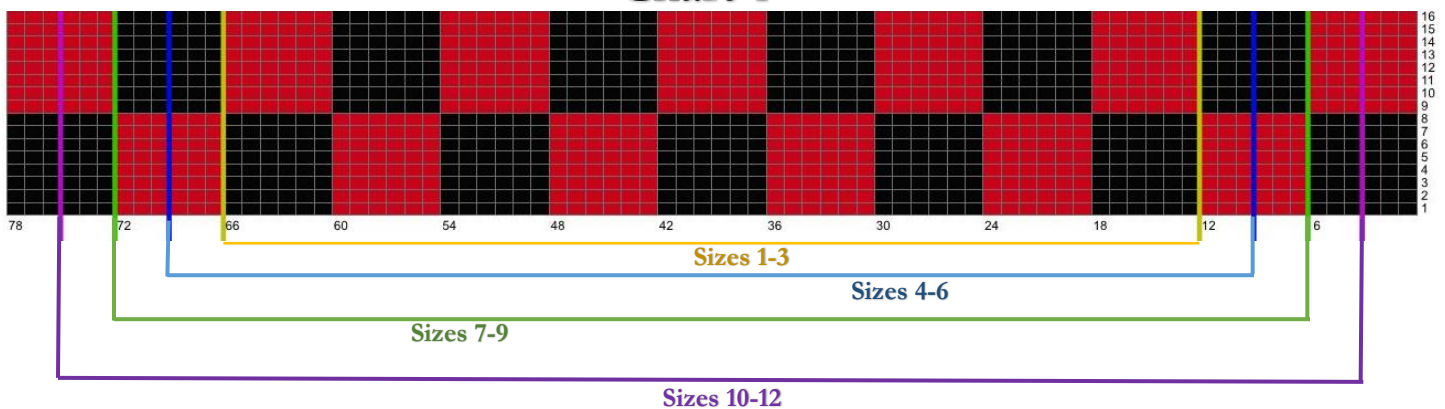
Sizes 4-6: Work only the sts between the blue borders for 32 rounds.

Sizes 7-9: Work only the sts between the green borders for 40 rounds.

Sizes 10-12: Work only the sts between the purple borders for 48 rounds.

Sizes 13-15: Work full chart for 48 rounds.

Chart 1





Break CC2, Join MC.


Next 26 rounds – Work Chart 5 as follows:

Round 1: Work the first 2 sts of chart 5, then work the red bordered repeat 1(1, 1, 4, 4) 4(7, 7, 7, 10) 10(10, 13, 13, 13) time(s). Place marker. Work chart across the next 48 sts. Place marker. Work the red bordered repeat 1(1, 1, 4, 4) 4(7, 7, 7, 10) 10(10, 13, 13, 13) time(s). Place marker. Work the last 2 sts of chart 5.

Rounds 2-26:

4. Work Chart 5 to the red repeat, noting that rounds 2, 10, 17, & 23 are increase rounds. Then, work the red bordered repeat to the first marker.
5. Work to the second marker.
6. Work the red bordered repeat to the maker, then work the remainder of chart 2 to the end of the round.

While working the last round of chart 5, remove the markers placed during round 1. 62(62, 62, 68, 68) 68(74, 74, 74, 80) 80(80, 86, 86, 86) sts



With cc1 KFB into the K of the double st. With mc KFB into the P of the double st.

Next 21 rounds - Work Chart 6 as follows:

Round 1: Work the first 3 sts of chart 6, then work the red bordered repeat over 0(0, 0, 3, 3) 3(6, 6, 6, 9) 9(9, 12, 12, 12) sts. Place marker. Work chart across the next 56 sts. Place marker. Work the 2nd red bordered repeat of chart 3 to the last 3 sts, then work the last 3 sts of chart 6.

Rounds 2-21:

4. Work Chart 6, repeating the red bordered repeat to the first Marker.
5. Work to the second marker.
6. Work the red bordered repeat to the last 3 sts, then work the last 3 sts of chart 6.

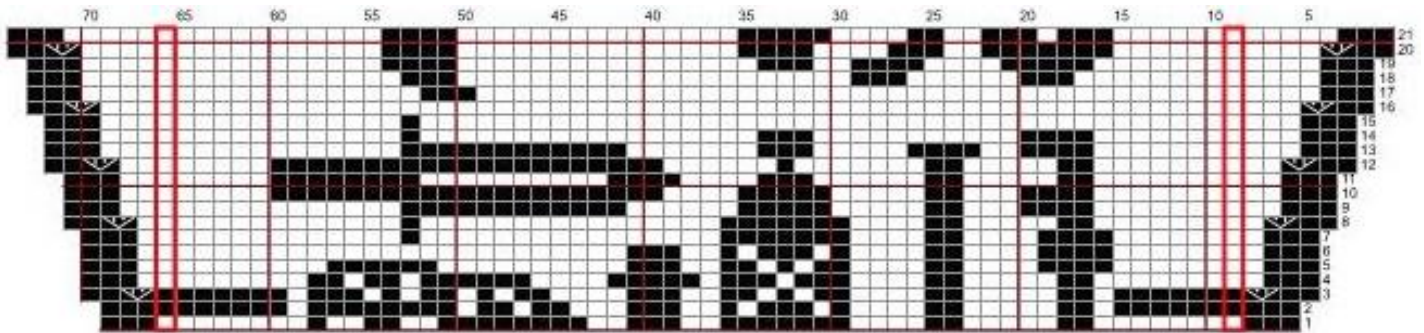


Chart 6

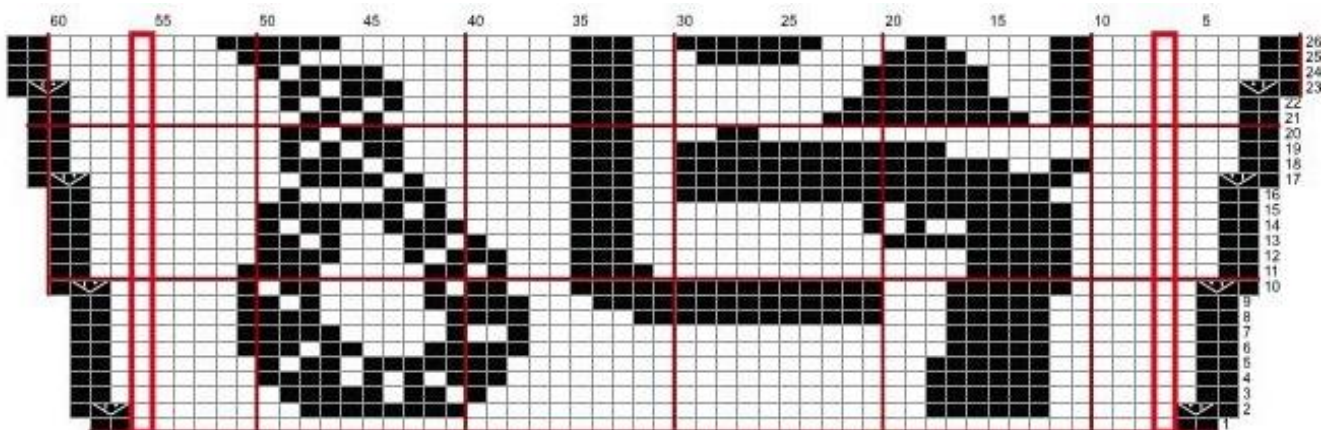


Chart 5



All sizes: While working round 1 of this section you must move your markers 2 sts closer the beginning/end of round so that there are 60 sts between them (as you begin this section there are 56 sts between the markers). The easiest way to accomplish this is to work to the st indicated in the pattern, slip the 2 sts before the marker, remove the marker, then slip the sts back to the left needle and place the markers as indicated.

Size 1:

Round 1: Work chart 7b. Repeat the red bordered repeat of chart 7c to 2 sts before marker 1. Remove marker 1 and place it here. Work chart 7c, removing marker 2 when you come to it and stopping when you reach the red bordered repeat. Place marker 2. Work the red bordered repeat to the last 3 sts, then work chart 7d.

Rounds 2-49: Work Chart 7b. Repeat the red bordered repeat of chart 7c to marker 1. Work 7c to the 2nd marker. Work the red bordered repeat to the last 3 sts, then work chart 7d.

Size 2-14:

Round 1: Work Chart 7a. Repeat the red bordered repeat of chart 7c to 2 sts before marker 1. Remove marker 1 and place it here. Work chart 7c, removing marker 2 when you come to it and stopping when you reach the red bordered repeat. Place marker 2. Work the red bordered repeat to the last 3 sts, place marker then work chart 7e.

Rounds 2- $x(7, 12, 10, 14)$ 18(16, 20, 22, 20) 24(28, 26, 30, x): Work Chart 7a. Repeat the red bordered repeat of chart 7c to marker 1. Work 7c to the 2nd marker. Work the red bordered repeat to the last 3 sts, place marker. Work chart 7e to end. Remove 3rd marker on the last round of this step.

Remaining rounds through 49: Work Chart 7b. Repeat the red bordered repeat of chart 7c to marker 1. Work 7c to the 2nd marker. Work the red bordered repeat to the last 3 sts, then work chart 7d.

Size 15:

Round 1: Work Chart 7a. Repeat the red bordered repeat of chart 7c to 2 sts before marker 1. Remove marker 1 and place it here. Work chart 7c, removing marker 2 when you come to it and stopping when you reach the red bordered repeat. Place marker 2. Work the red bordered repeat to the last 3 sts, place marker then work chart 7e.

Rounds 2-49: Work Chart 7a. Repeat the red bordered repeat of chart 7c to marker 1. Work 7c to the 2nd marker. Work the red bordered repeat to the last 3 sts, place marker. Work chart 7e to end.

72(76, 80, 84, 88) **92(96, 100, 102, 106)** 110(114, 118, 122, 126) sts.

If you would like to INCREASE the length of the sleeve you can do so here by repeating round 49 to desired length.

Next - Move sleeve sts to waste yarn holders as follows. You will need 2 lengths of waste yarn for each sleeve.

Remove all markers as you come to them as you place sts on waste yarn holders.

5. Working in double knitting in the same manner that you did for round 49 of chart 7 (with CC1 facing on the right side and MC facing on the wrong side) work $3(2, 4, 3, 4)$ **6(7, 6, 7, 6)** $10(9, 10, 9, 10)$ double knit sts.
6. Break MC and CC1, leaving long ends of both colors for sewing (you will want these later when you join the sleeves to the sweater).



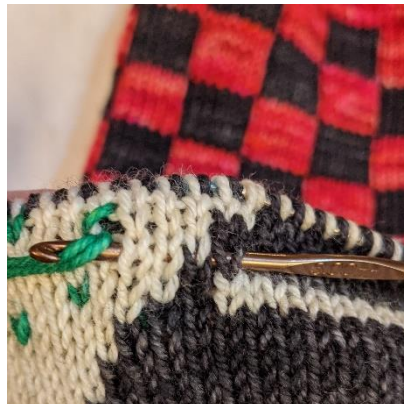
7. With the first piece of waste yarn threaded through the tapestry needle, transfer the last 6(4, 8, 6, 8) **12(14, 12, 13, 11)** 19(17, 19, 17, 19) sts worked to the waste yarn. Make sure to transfer both the K and the P of each DK stitch!
8. Transfer the remaining 66(72, 72, 78, 80) **80(82, 88, 89, 95)** 91(97, 99, 105, 107) sts to the second piece of waste yarn.

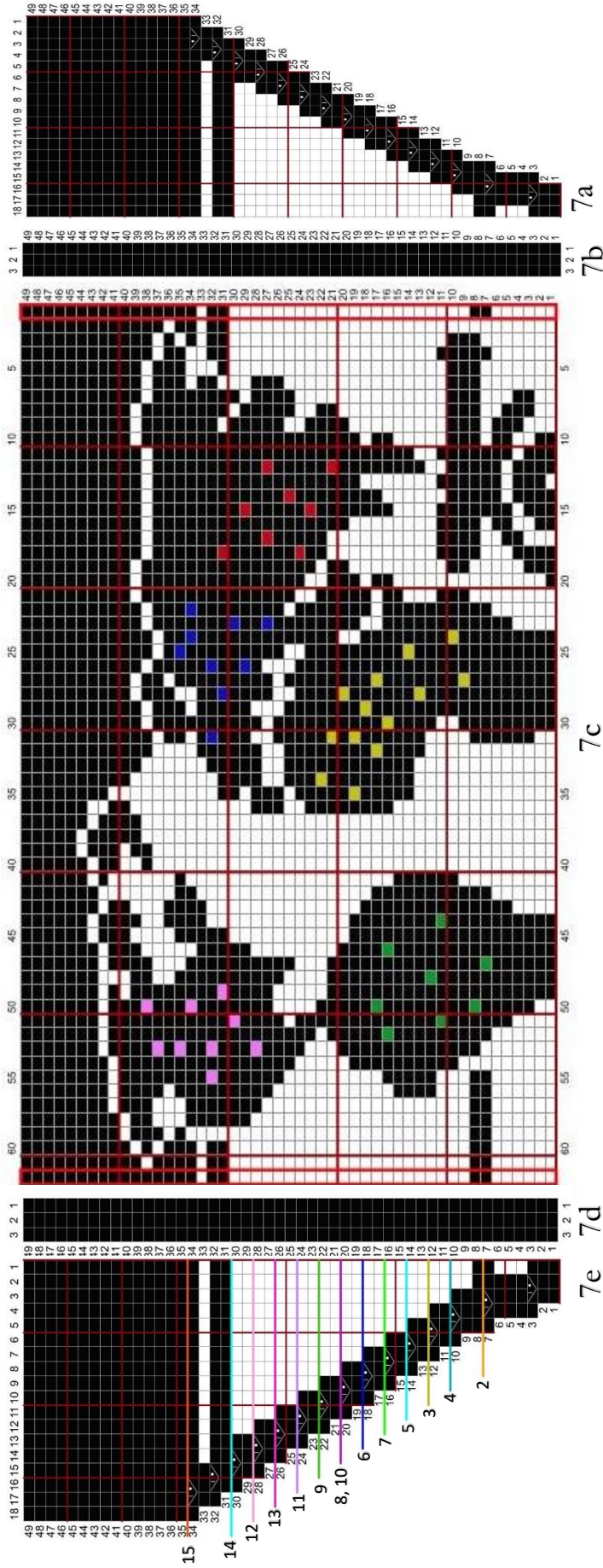
I recommend knotting the ends of each piece of waste yarn together to prevent the stitches from escaping your wooly bondage.

Adding single stitches of a 3rd color:

The Risk section features pops of color that represent the game pieces on the risk board. You can omit these, add them with duplicate stitch, or add them as you go along. I added mine as I went along as follows:

1. I cut short lengths of the color I wanted to use. 1 piece of yarn for each stitch I plan to add. My yarn bits were around 4" each. That was longer than needed, but if you have enough yarn to cut them that long I recommend it. The longer tails make it much easier to grab them with a crochet hook and pull them to the inside of the work when you are done.
2. When I reached the stitch that should be worked in the new color I took one of the pieces of that color and worked both the K and the P of the double stitch with my little yarn bit. **VERY IMPORTANT:** you **MUST** bring the MC and CC colors along for the ride while you do this. Bring them both to the back to K and to the front to P. Otherwise it will look really wonky.
3. Drop the tails of the 3rd color where they are and proceed along the round, adding color pops as indicated in the pattern, and otherwise working with MC and CC.
4. Every few rounds or so, deal with your little tails (you could also do them all at the end but it's so tedious. I found it was a more "peaceful" experience for me to do them every few rounds so I never had to do a ton of them at once).
 - a. Insert a crochet hook so that it is entering the fabric at the spot where one of your tails is exiting the fabric. Slide the hook through the inside of the work and grab the other tail of that yarn bit, pulling it through the center of the work and out so that both tails are now exiting the work in the exact same spot.
 - b. Choose a random spot (it really does not matter where) that is about 1" away from the place where the 2 tails are exiting the fabric. Use your crochet hook to pull both tails through the inside so now they both exit the fabric together a little bit away from the stitch.
 - c. Tie a sturdy little knot in the tails but take care not to pull hard on the stitch they are from. The goal here is to have some yarn slack between the knot and the stitch. If the knot is right on top of the stitch you may wind up with the little color pops being much tighter than the surrounding sts and it will wind up looking rumpled. Pull the now knotted tails into the inside of the work.







BODY

The body is worked bottom up, beginning with the ribbing.

For all body sections: MC is shown as white on the chart. CC1 is shown as black. CC2 is shown in red. Additional optional embellishment colors are shown in the colors I used to work them and were added with duplicate st after knitting each section. These additional colors are optional and can be worked in MC or CC1 if you prefer.

Cast On: With CC2 and smaller needles, CO 168(176, 208, 216, 240) 248(272, 280, 304, 312) 336(344, 368, 376, 400) sts using the same co us used for the sleeves, but do not join to work in the round. Work K2P2 ribbing for 2".

Double Knitting Set Up:

1. (Wrong Side) KFB all sts across.
2. (Right side) Join CC1 (do not break CC2). Work 1 row of double knitting across, Knitting with CC2 and Purling with CC1. Treating each KFB from the prior row as a double knit stitch, knitting into the first half of the KFB and purling into the second half of the KFB, remembering to bring both colors to the back for the Ks and to the front for the Ps.
3. (Wrong Side) Work one more row of plain double knitting before starting charts (this is a wrong side row), Knitting with CC1 and Purling with CC2, and placing markers as follows:
 - Work 4(8, 8, 12, 8) 12(8, 12, 8, 12) 8(12, 8, 12, 8) sts. Place Marker.
 - Work 40 sts. Place Marker.
 - Work 16(16, 32, 32, 48) 48(64, 64, 80, 80) 96(96, 112, 112, 128) sts. Place Marker.
 - Work 48 sts. Place Marker.
 - Work 16(16, 32, 32, 48) 48(64, 64, 80, 80) 96(96, 112, 112, 128) sts. Place Marker.

- Work 40 sts. Place Marker.
- Work 4(8, 8, 12, 8) 12(8, 12, 8, 12) 8(12, 8, 12, 8) sts to end.

BODY SECTION 1

For this and all body sections, slip markers when you come to them. Odd numbered rows on the chart are **RIGHT SIDE** rows and should be read from right to left. Even numbered rows are **WRONG SIDE** rows and should be read from left to right.

Length planning: As written there are 150 charted rows on the body (this does not include the ribbed hem). If you want to add length to the body you can add rows of checkerboard in this section, or you can add length at the end of the body right before the sleeve join. To remove length you can work fewer rows of ribbing and can omit any of the first 12 rows in this section.

Rows 1-19: Work Chart B1 as follows using CC1 and CC2. Note that MC (white on the chart) can be added with duplicate stitch or worked in 3 color double knitting (if you're feeling particularly adventurous!). I completed this section by working the white squares on the chart in CC2 and duplicate stitching over them with MC.

- Work the purple bordered repeat to the first marker. Work the next 8 sts as shown, then repeat the blue bordered repeat to the 3rd marker.
- Work the next 48 sts as shown, then work the 2nd blue bordered repeat to 8 sts before the final marker.
- Work the next 8 sts as shown to the last marker, then work the 2nd purple repeat to end.

Row 20: Break CC2 and join MC, then work row 20 of the chart in the same manner as rows 1-19.

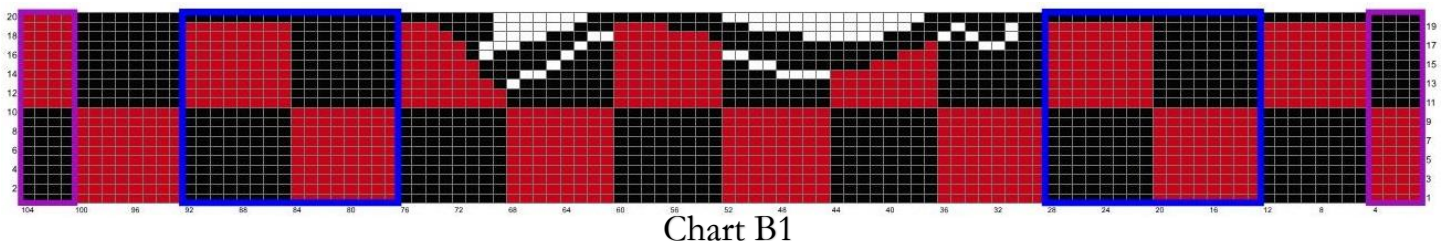


Chart B1



BODY

The body charts are broken into 14 row sections to make the charts easier to work with. Each 14 row section will be made up of 3 charts: A, B, and C. On Right Side rows you will work the charts in the order A-B-C, reading the charts from right to left. On Wrong Side rows you will work the charts in the order C-B-A, reading the charts from left to right. Before beginning these charts, double check your marker placement, as they will make your progress through the charts MUCH easier. Note that you may opt to add additional markers to indicate each of the 16 st repeats that will be used in charts A and C throughout the body. For all body sections before the sleeve join you will work as follows:

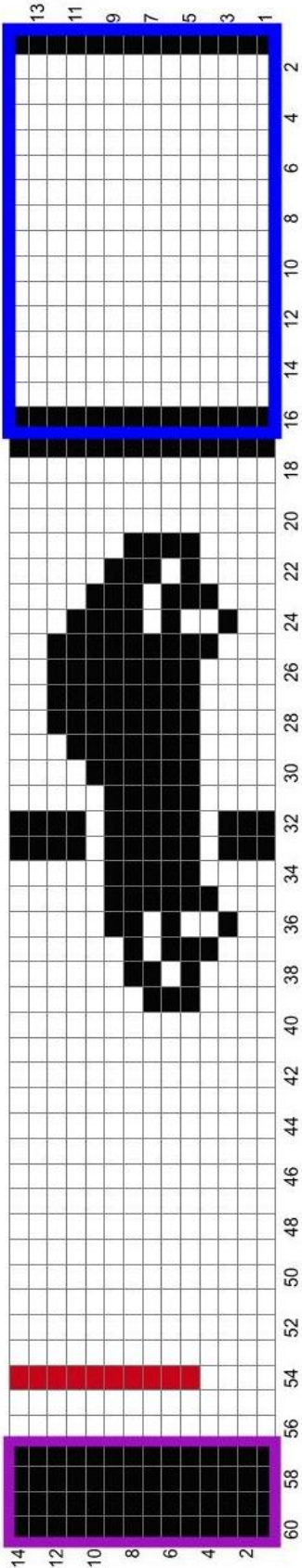
1. A 4 st repeat to marker 1.
2. A 40 st chart to marker 2.
3. A 16 st repeat to marker 3. *Additional markers can be added here to mark off each of the 16 st repeats.*
4. A 48 st chart to marker 4.
5. A 16 st repeat to marker 5. *Additional markers can be added here to mark off each of the 16 st repeats.*
6. A 40 st chart to marker 6.
7. A 4 st repeat to end.

Right Side rows (reading charts from right to left):

- **Chart A:**
 - o Work the purple bordered repeat to the 1st marker. *4(8, 8, 12, 8) 12(8, 12, 8, 12) 8(12, 8, 12, 8) sts.*
 - o Work sts 5-44 (the sts before the blue border) to the 2nd marker. *40 sts.*
 - o Work the blue bordered repeat to the 3rd marker. *16(16, 32, 32, 48) 48(64, 64, 80, 80) 96(96, 112, 112, 128) sts.*
- **Chart B:**
 - o Work full chart to the 4th marker. *48 sts.*
- **Chart C:**
 - o Work the blue bordered repeat to the 5th marker. *16(16, 32, 32, 48) 48(64, 64, 80, 80) 96(96, 112, 112, 128) sts.*
 - o Work sts 17-56 (the sts before the purple border) to the 6th marker. *40 sts.*
 - o Work the purple bordered repeat to end. *4(8, 8, 12, 8) 12(8, 12, 8, 12) 8(12, 8, 12, 8) sts.*

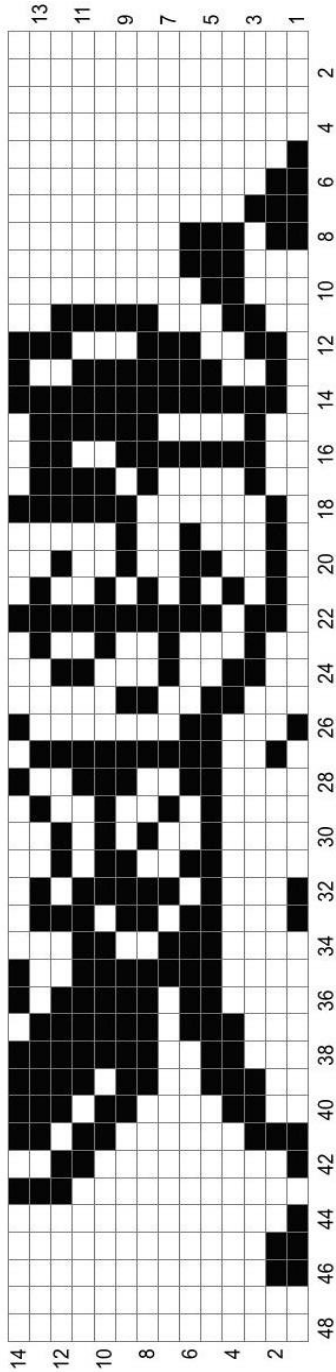
Wrong Side rows (reading charts from left to right):

- **Chart C:**
 - o Work the purple bordered repeat to the 1st marker. *4(8, 8, 12, 8) 12(8, 12, 8, 12) 8(12, 8, 12, 8) sts.*
 - o Work sts 56-17 (the sts before the blue border) to the 2nd marker. *40 sts.*
 - o Work the blue bordered repeat to the 3rd marker. *16(16, 32, 32, 48) 48(64, 64, 80, 80) 96(96, 112, 112, 128) sts.*
- **Chart B:**
 - o Work full chart to the 4th marker. *48 sts.*
- **Chart A:**
 - o Work the blue bordered repeat to the 5th marker. *16(16, 32, 32, 48) 48(64, 64, 80, 80) 96(96, 112, 112, 128) sts.*
 - o Work sts 44-5 (the sts before the purple border) to the 6th marker. *40 sts.*
 - o Work the purple bordered repeat to end. *4(8, 8, 12, 8) 12(8, 12, 8, 12) 8(12, 8, 12, 8) sts.*

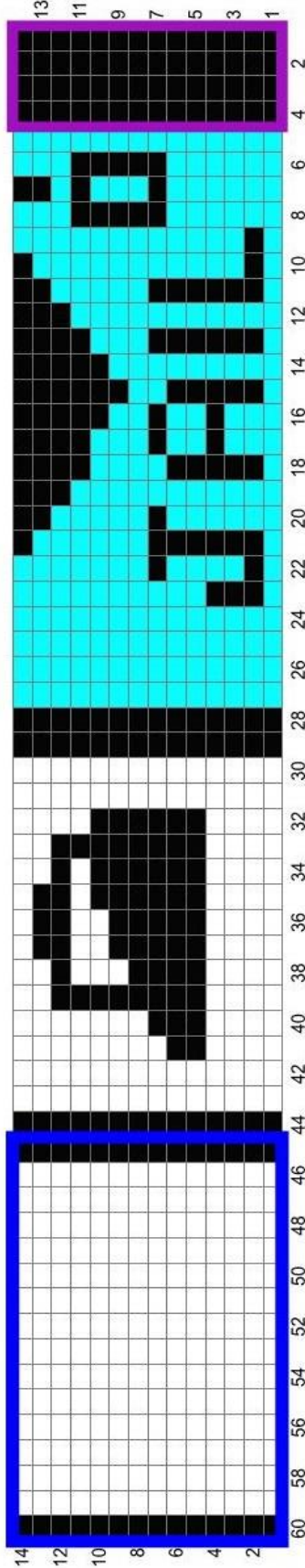


Body Chart 2C

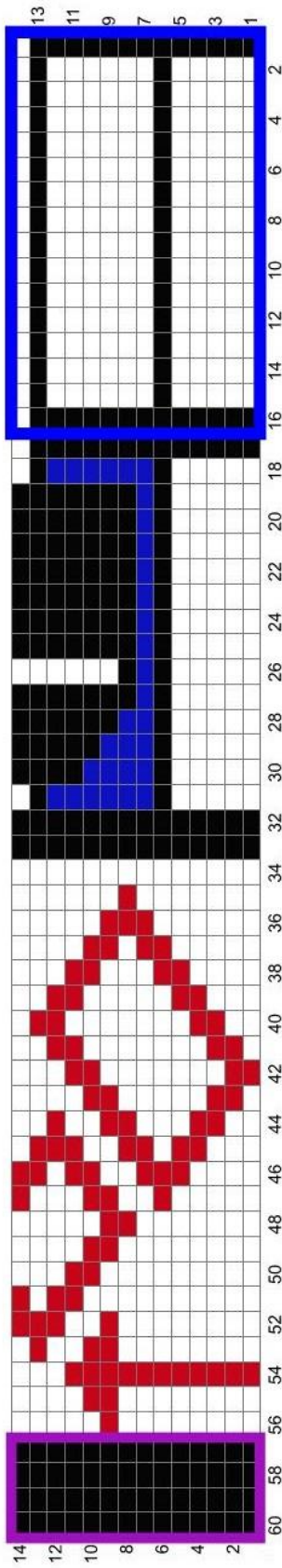
For this section, I worked the blue portion of C in intarsia, with blue as the background color on the right side and black on the wrong side. I worked the lettering in duplicate stitch so that it would read correctly on both sides. I worked the red line on chart C with duplicate stitch.



Body Chart 2B

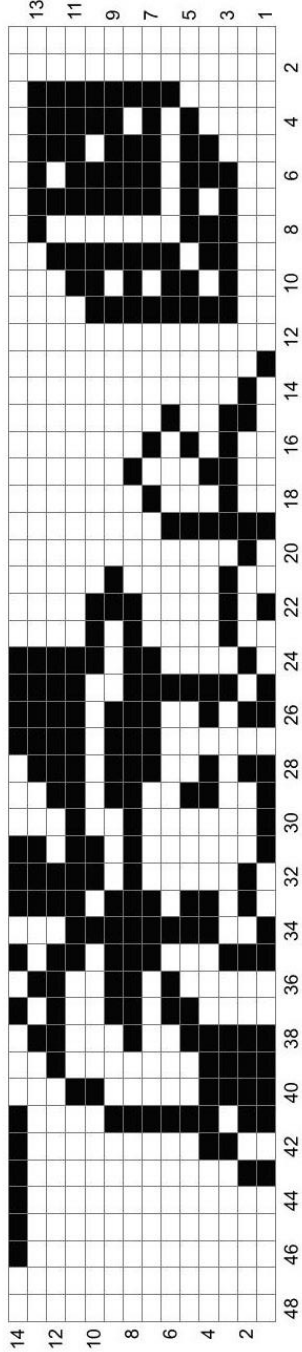


Body Chart 2A

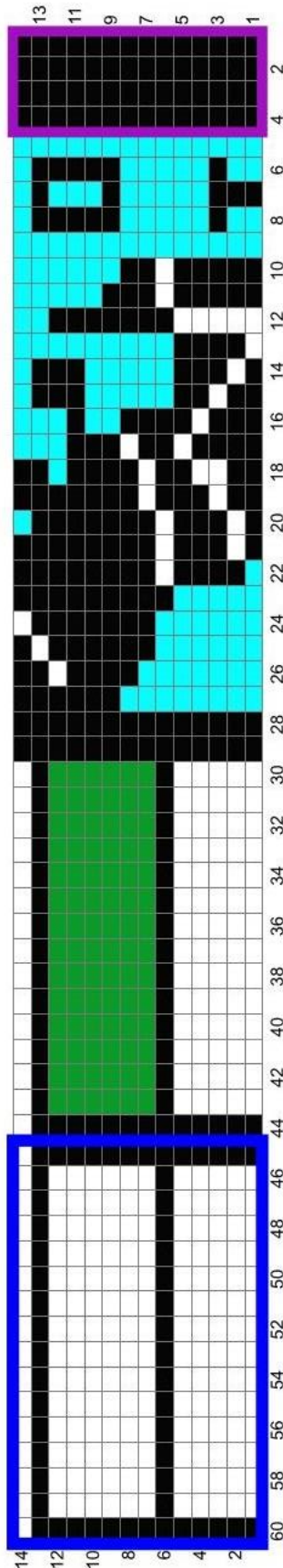


Body Chart 3C

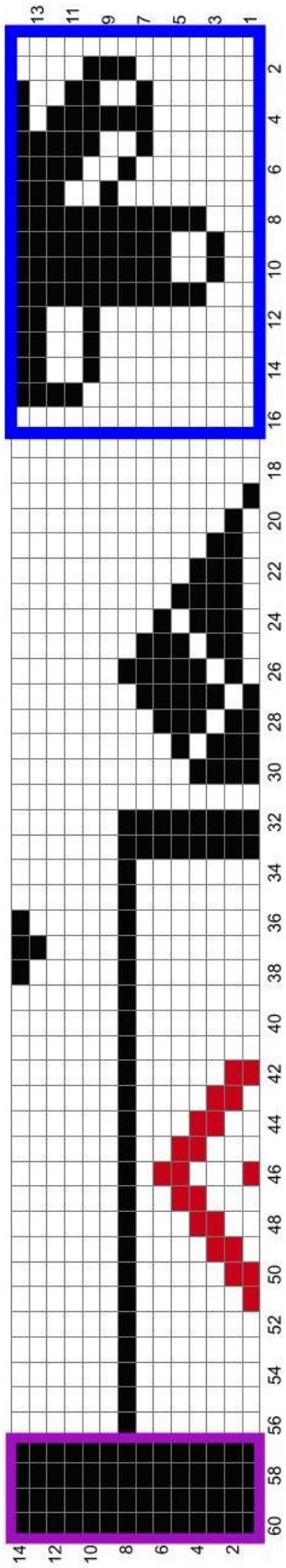
For this section, I worked the blue portion of A in intarsia, with blue as the background color on the right side and black on the wrong side. I worked the lettering on chart A, as well as the green on chart A and the blue and red on chart C in duplicate stitch.



Body Chart 3B

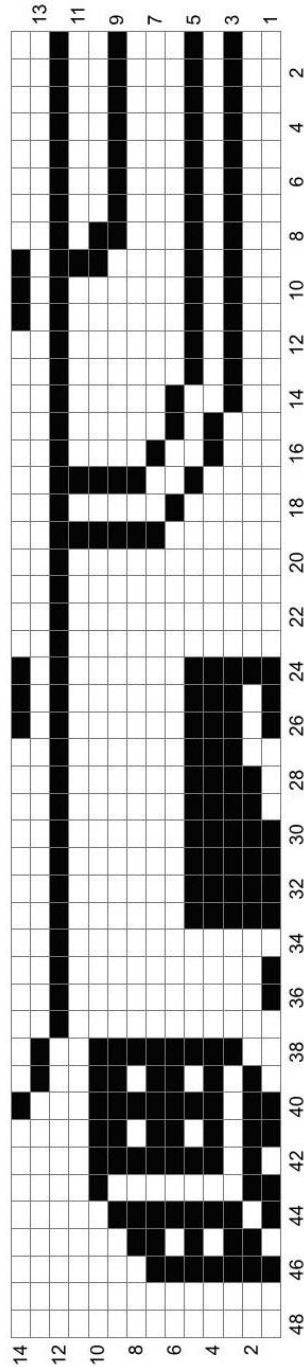


Body Chart 3A

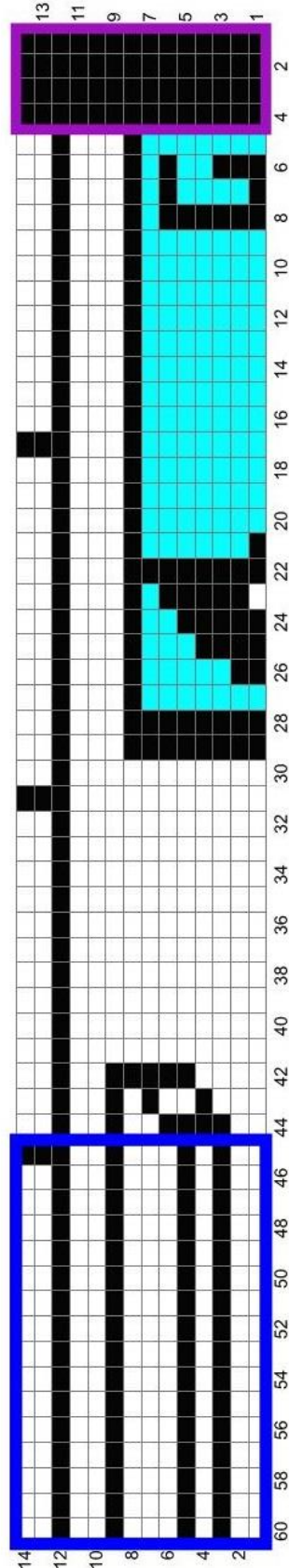


Body Chart 4C

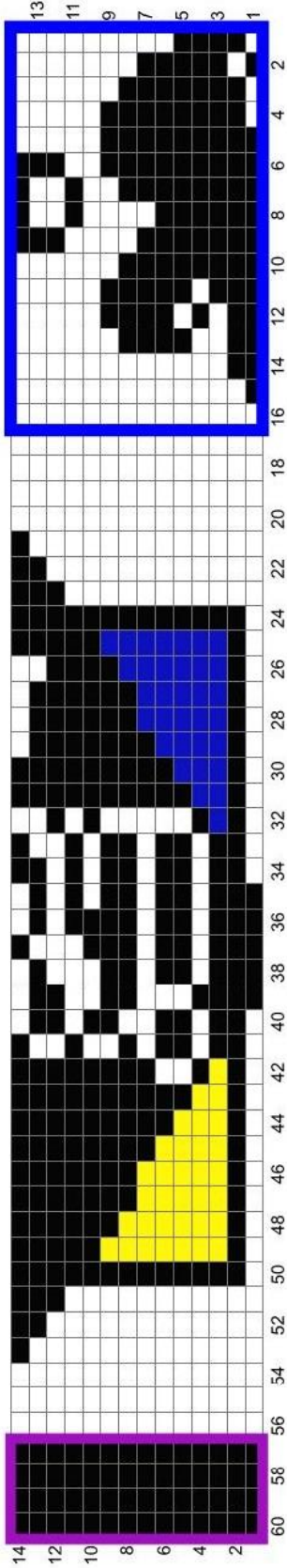
For this section, I worked the blue portion of A in the intarsia, with blue as the background color on the right side and black on the wrong side. I worked the red on chart C in duplicate stitch.



Body Chart 4B



Body Chart 4A

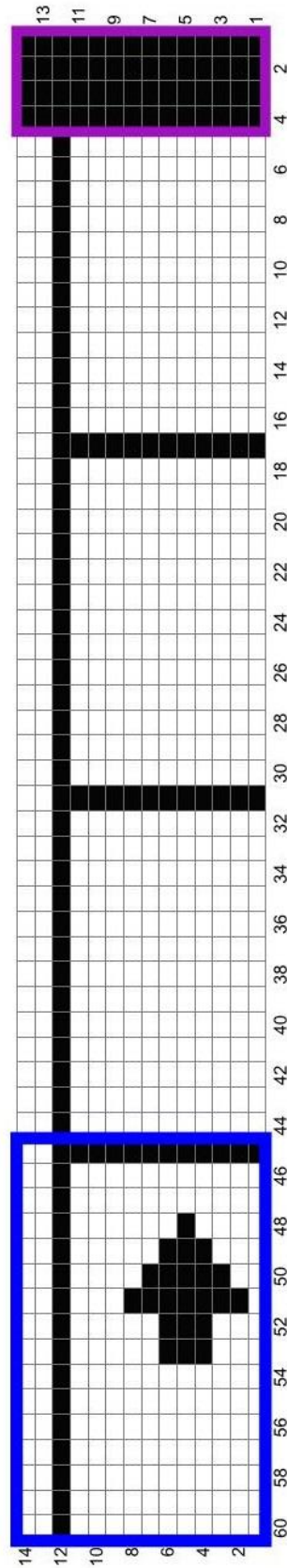


Body Chart 5C

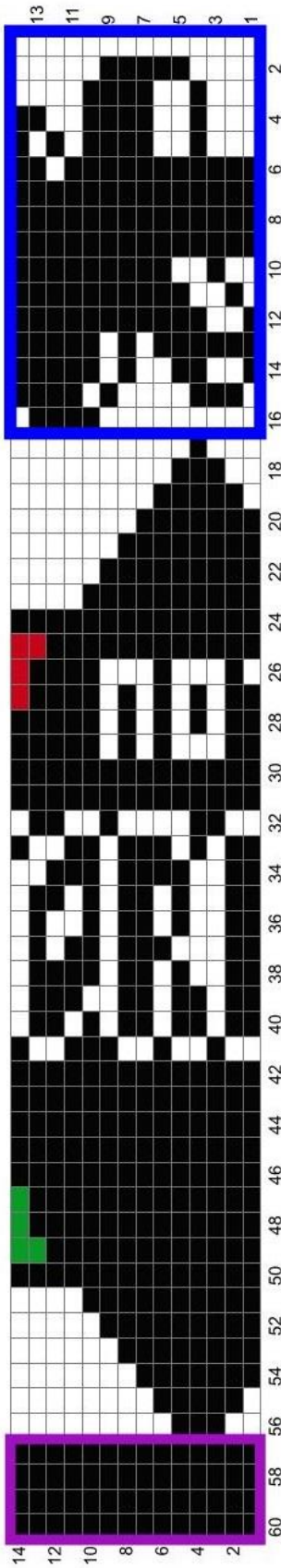
For this section, I worked the blue and yellow areas in Chart C with duplicate stitch (duplicating the colors on both sides of the work). For the lettering on chart C in this section and the next I worked regular duplicate stitch. It looked nice on both sides even without the lettering worked to read correctly on the back.



Body Chart 5B

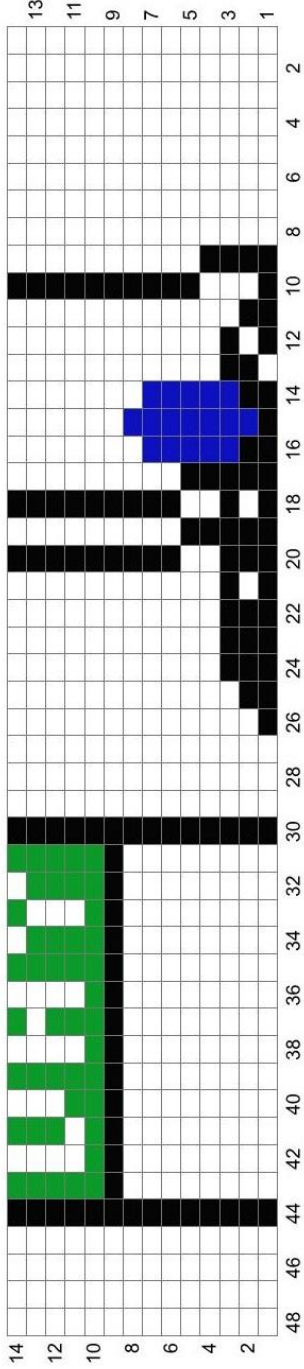


Body Chart 5A

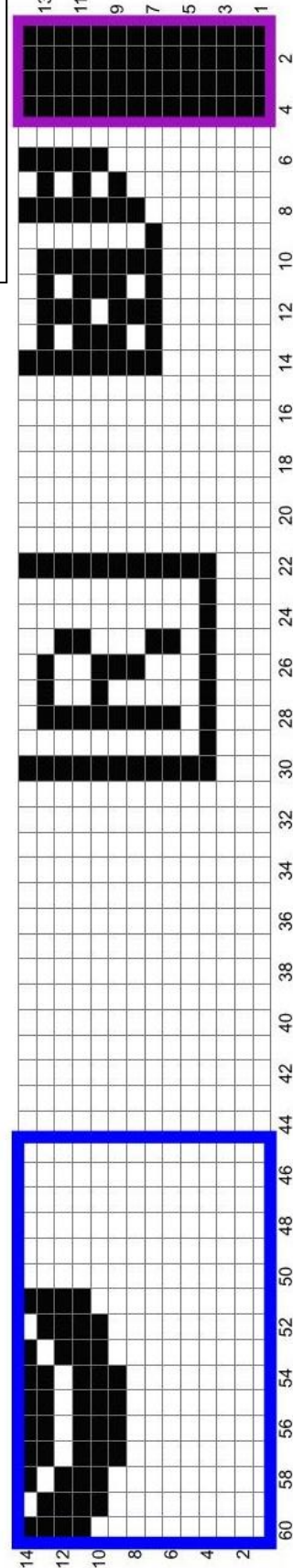


Body Chart 6C

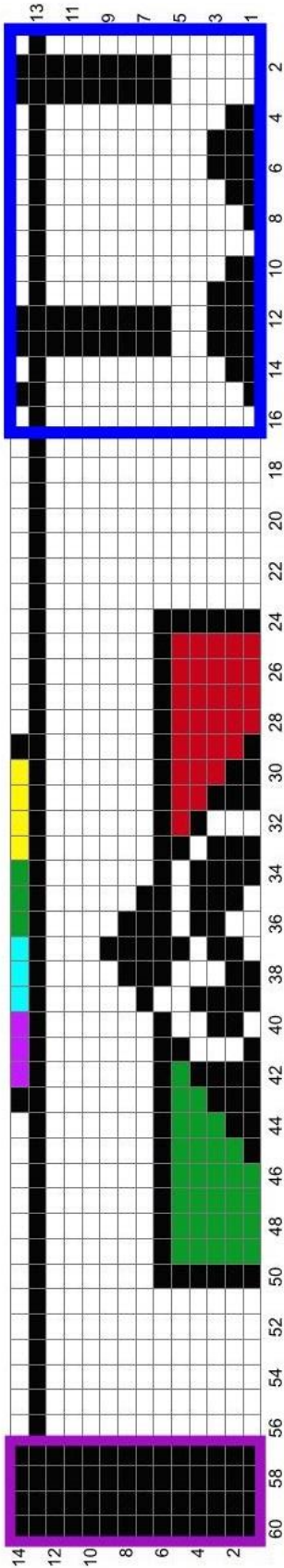
For this section, I worked the letter "R" in duplicate stitch so it would read correctly on both sides. I worked the blue and green and red portions of charts B & C in duplicate as well. However, I recommend finishing the next body section (7) before working the duplicate stitching on the green in Chart B and the red and green in Chart C.



Body Chart 6B

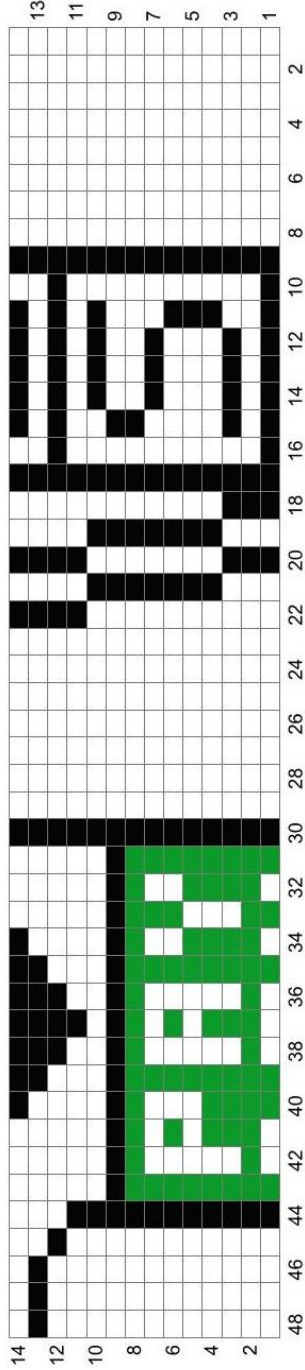


Body Chart 6A

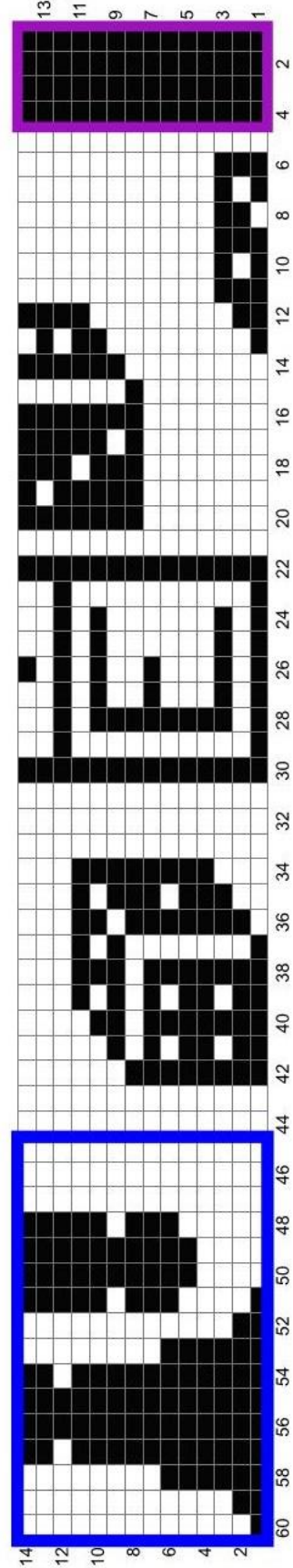


Body Chart 7C

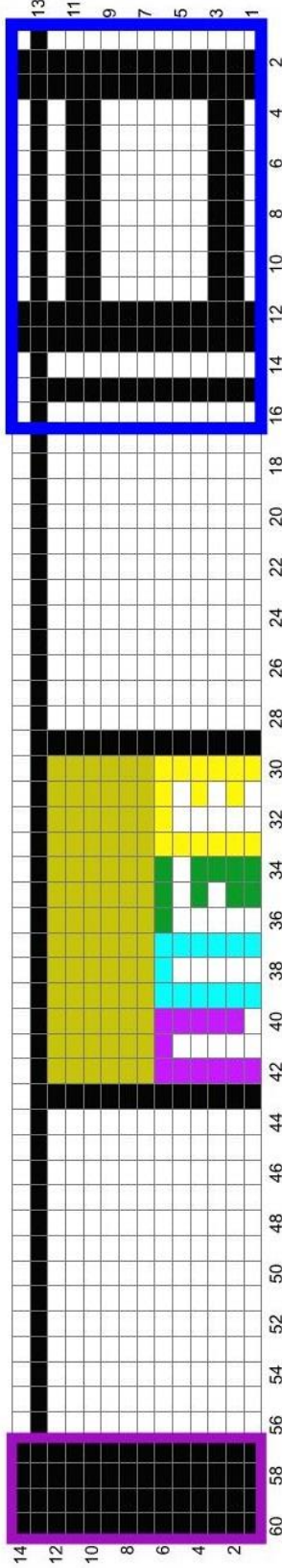
For this section, I worked the letter "E" in duplicate stitch so it would read correctly on both sides. I worked the colored portions of charts B & C in duplicate as well. However, I recommend finishing the next body section (8) before working the duplicate stitching on the top row of Chart C.



Body Chart 7B

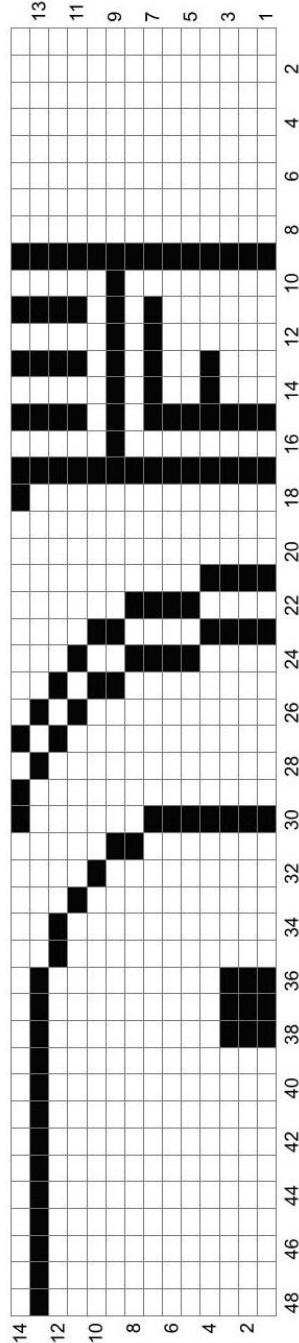


Body Chart 7A

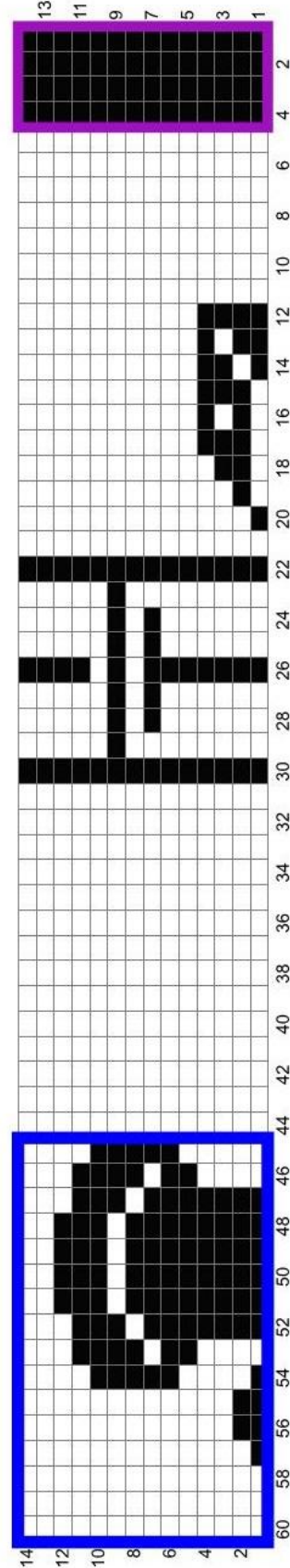


For this section, I worked the letters on charts A and B in duplicate stitch so it would read correctly on both sides. I worked the colored portions of chart C in duplicate as well as follows: I worked the "LIFE" square in plain double knitting with MC on the front and CC on the back. I then went over the completed space in duplicate st to fill in the background.

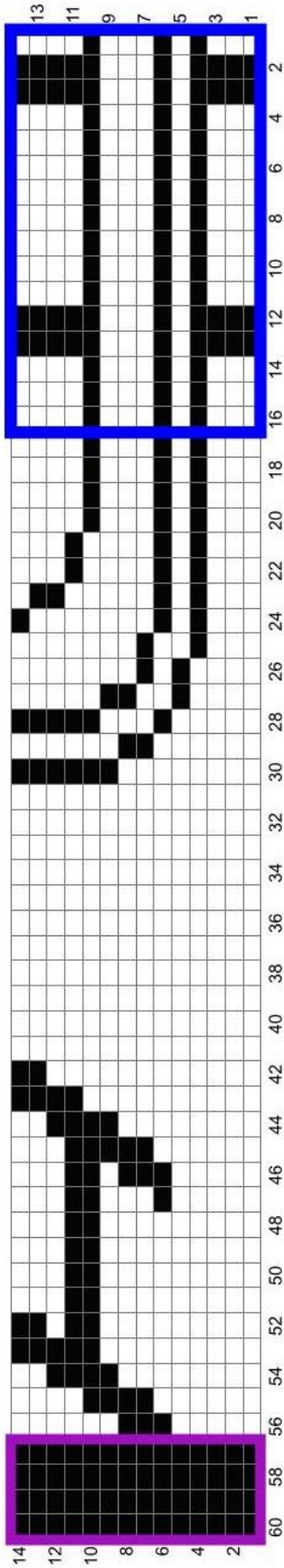
Body Chart 8C



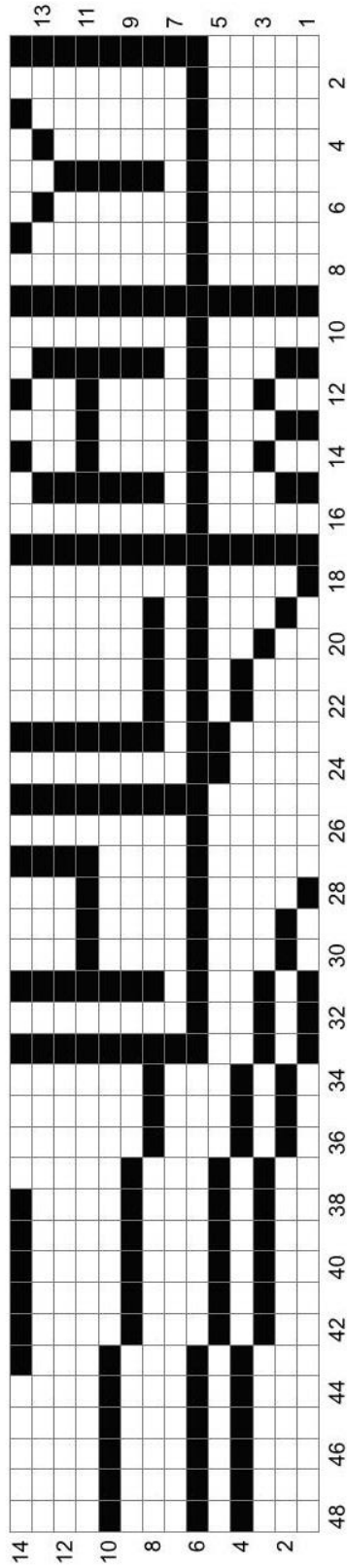
Body Chart 8B



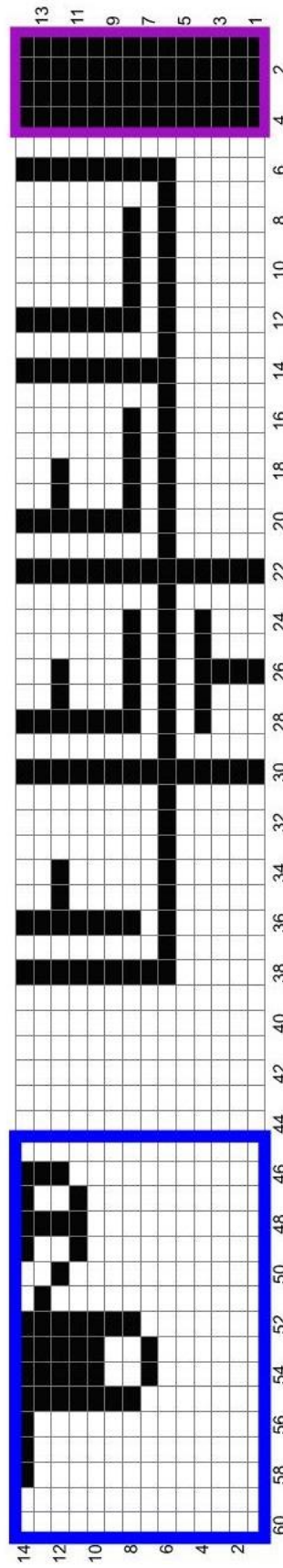
Body Chart 8A



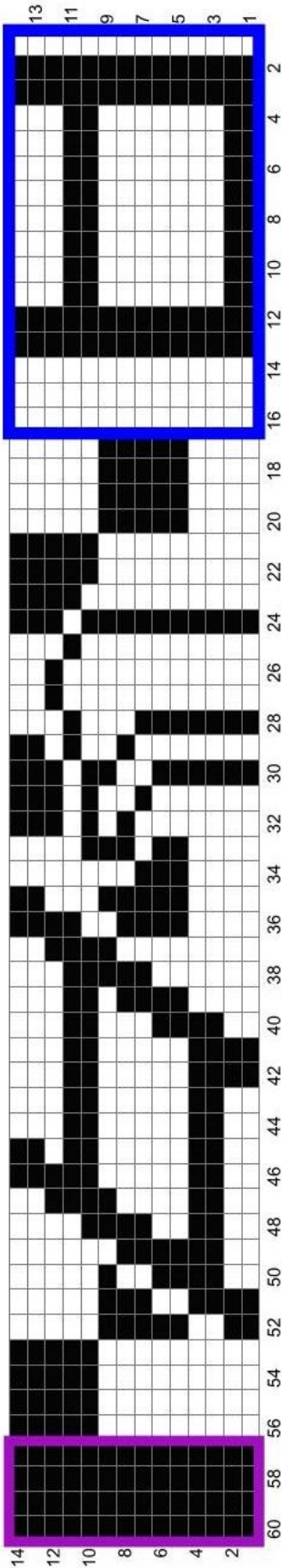
Body Chart 9C



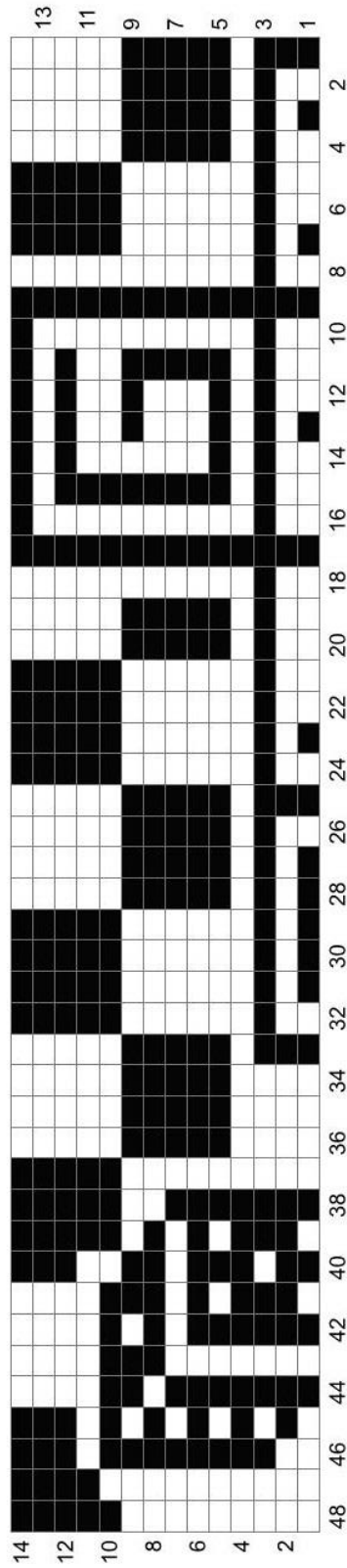
Body Chart 9B



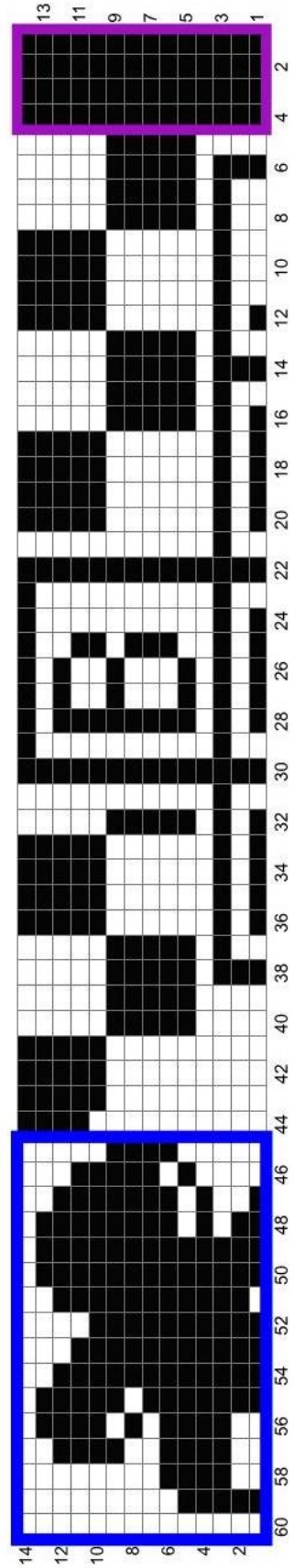
Body Chart 9A



Body Chart 10C



Body Chart 10B



Body Chart 10A