Purl Strings

designs for hand knitting by
HEIDI KIRRMAIER

FINISHED CHEST CIRCUMFERENCE

(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]	
78	88	94	102	109	118	127	136	146	156	166	174	cm
30¾	34½	37	40	42¾	46½	50	53½	57½	61½	65¼	68½	inches

- Intended to fit with approximately 5 - 12 cm (2 - 5 inches) of positive ease around the chest. Shown in size S with 10 cm (4 inches) of positive ease.
- Refer to diagram on Page 3 for more detailed measurements to help select your size.

MATERIALS & TOOLS

- DK weight yarn in the amount given below. Elbow length sleeve sample shown in The Fibre Company Luma (50% merino, 25% cotton, 15% linen, 10% silk; 125 m/50 g), colour 'chambray'; Long sleeve sample shown in Juniper Moon Farm Zooey Twist (60% cotton, 40% linen; 260 m /100 g), colour 'pawnee cloud'.

Elbow length sleeves

(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]	
620	700	750	825	900	960	1090	1200	1300	1400	1500	1570	m
680	765	820	900	985	1050	1190	1310	1425	1530	1640	1720	yds

Long sleeves

(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]	
790	880	940	1040	1125	1190	1340	1460	1575	1690	1800	1885	m
865	960	1025	1135	1230	1300	1465	1600	1725	1850	1970	2060	yds

- 3.5 mm (US 4) circular needle, or size to obtain gauge:
  - of length equal to or slightly shorter than chest size
  - for working small diameter rounds (i.e. beginning of yoke and sleeves) using preferred method (e.g. DPNs, short circular, magic loop, 2 circulars)
- 3.25 mm (US 3) circular needle, or one size smaller than gauge needle:
  - of length equal to or slightly shorter than chest size (for body ribbing)
  - for working small diameter rounds (i.e. collar and sleeve ribbing) using preferred method
- 1 stitch marker
- crochet hook, if working crochet provisional cast on
- waste yarn, for holding sleeve sts and if working provisional cast on

GAUGE

- 21 sts and 30 rounds / 10 cm (4 inches) in st st and moss st, after blocking (=washing and drying), with gauge needle

PATTERN SUPPORT

- Please post any questions you may have in Heidi Kirrmaier's Ravelry group: https://www.ravelry.com/groups/heidi-kirrmaier.
- If you don't have a Ravelry account, email questions to: heidikdesigns411@gmail.com

SHARE

- Please tag your projects with #purlstringssweater and #heidikdesigns on social media. Thanks!

- Knit from the top down in the round, starting with a long tail cast on. Alternatively, a provisional cast on may be used, if you prefer to work the collar at the end. This allows the neckline to be adjusted more easily (e.g. made looser or tighter, or worked longer or shorter).
- Two sleeve options are given: long sleeves, or elbow length sleeves.
- Short row neck shaping is worked at the beginning of the yoke. Then the yoke is shaped with evenly spaced increases while working the texture patterns.
- Body and sleeves are worked in the round after dividing the yoke sts.
- Where bold letters or words (e.g. **A, B, C, Front sts**, etc.) appear in the instructions, insert the values given for your size from the accompanying table.
- Where a single number appears in brackets, it applies to all sizes in the bracket.
- Abbreviations and links to relevant tutorials are provided on Page 10.

FINISHED MEASUREMENTS
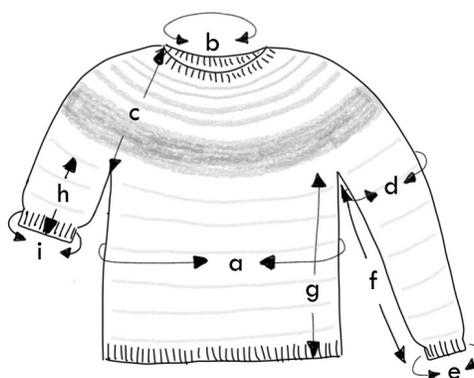
centimeters

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
a	78	88	94	102	109	118	127	136	146	156	166	174
b	46	49	49	51	51	52	52	53	55	55	57	57
c	19	20	20	21	22	22	23	24	25	25	26	26
d	28	30	31	33	35	37	41	44	48	50	53	56
e	21	21	22	23	23	24	25	25	25	26	26	27
f	43	43	43	45	45	45	46.5	46.5	46.5	46.5	46.5	46.5
g	31	31	31	31	31	31	34	34	34	34	34	34
h	14.5	14.5	14.5	14.5	14.5	14.5	16	16	16	16	16	16
i	23	25	26	28	30	30	34	36	39	42	44	47

inches

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
a	30.7	34.5	37.1	40.1	42.7	46.5	49.9	53.6	57.6	61.5	65.2	68.6
b	18.0	19.1	19.1	20.2	20.2	20.6	20.6	21.0	21.7	21.7	22.5	22.5
c	7.6	7.9	7.9	8.3	8.7	8.7	8.9	9.4	9.7	9.8	10.1	10.1
d	10.9	11.6	12.4	13.1	13.9	14.6	16.1	17.2	18.7	19.9	21.0	22.1
e	8.2	8.2	8.6	9.0	9.0	9.4	9.7	9.7	9.7	10.1	10.1	10.5
f	16.9	16.9	16.9	17.7	17.7	17.7	18.3	18.3	18.3	18.3	18.3	18.3
g	12.2	12.2	12.2	12.2	12.2	12.2	13.4	13.4	13.4	13.4	13.4	13.4
h	5.7	5.7	5.7	5.7	5.7	5.7	6.3	6.3	6.3	6.3	6.3	6.3
i	9.0	9.7	10.1	10.9	11.6	12.0	13.5	14.2	15.4	16.5	17.2	18.4

Collar

> OPTIONAL: If you wish to have the ability to adjust the neck opening, skip this section, and instead provisionally cast on the number of "resulting sts" in the table at the bottom of this page. Place BOR marker, join in the round, and knit one round. Then follow the remainder of instructions, beginning with Short Row Neck Shaping on Page 5, and then follow the instructions for Collar for Optional Provisional Cast On on Page 9.

With smaller needle (of length to accommodate the number of CO sts), using long-tail or other preferred method,

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]	
CO	96	102	102	108	108	110	110	112	116	116	120	120	sts.

Join in the round being careful not to twist the sts, and place marker for BOR.

> NOTE: The BOR is at the left back shoulder (not at the center back).

Work in 1x1 rib for (2.5) [2.5] (4) [4] cm ((1) [1] (1½) [1½] inches).

Change to gauge needle (of length to accommodate CO sts).

Knit 1 round.

> NOTE: The lifted increases below (LLI and RLI) can be replaced with m1l and m1r if preferred.

Sizes **XXS, XS, S, M1, M2**:
Next round: *RLI, k3; repeat from * to end.

Sizes **L, XL**:
Next round: *RLI, k2, RLI, k3; repeat from * to end.

Sizes **2X, 3X, 4X**:
Next round: *RLI, k2; repeat from * to end.

Sizes **5X, 6X**:
Next round: *RLI, k1, RLI, k2, RLI, k2; repeat from * to end.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
resulting sts	128	136	136	144	144	154	154	168	174	174	192	192

All Sizes:
Knit 1 round.

Short Row Neck Shaping

> NOTE 1: Any other short row method may be substituted for yo short rows if desired.
>
> NOTE 2: The BOR marker is at the left shoulder (<u>not</u> center back).

Short row 1 (RS): k**A**, TW, yo.

Short row 2 (WS): p to BOR, sm, p**B**, TW, yo.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
A	46	52	51	56	57	58	57	63	67	62	73	73
B	9	11	11	13	13	10	10	12	15	9	15	15

> NOTE: On all RS short rows after short row 1, when you encounter the yo in the previous row, k tog the yo with the st to the left of it. On all WS short rows after short row 2, when you encounter the yo in the previous row, ssp the yo with the st to the left of it. When counting the number of sts to the next turn, the yo worked tog with the st next to it counts as 1 st.

Short row 3 (RS): k 5 sts past previous turn, TW, yo.

Short row 4 (WS): p 5 sts past previous turn, TW, yo.

Repeat previous 2 short rows (1) [1, 1, 2] (2) [3] more times.

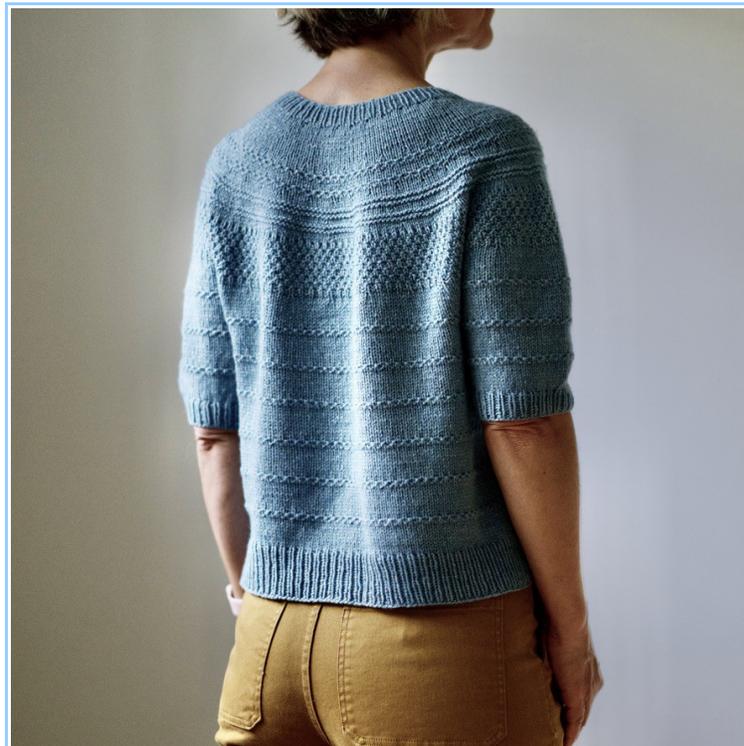Next short row (RS): k 6 sts past previous turn, TW, yo.

Next short row (WS): p 6 sts past previous turn, TW, yo.

Repeat previous 2 short rows 1 more time.

Knit to BOR.

Knit 1 round.

> NOTE: When you encounter the last yo, ssk the yo with the st to the right of it.

Yoke

> NOTE 1: Refer to the table below for **C, D, E, F** and the resulting sts after each increase round.
>
> NOTE 2: Where multiple numbers appear, use each of the numbers once in each repeat. *For example*, for **Sizes L and XL,** increase round **C** is: *k3, LLI, k4, LLI; repeat from * to end. For **Sizes 5X and 6X**, increase round **C** is: *k2, LLI, k3, LLI, k3, LLI; repeat from * to end.
>
> NOTE 3: LLI and RLI (lifted increases) can be replaced with m1l and m1r if preferred.
>
> NOTE 4: Change to longer circular needle when there are enough sts.

Knit 1 round.

Next round (*inc*): *k**C**, LLI; repeat from * to end.

Knit 1 round.

Seed st Stripes

Next round: *k1, p1; repeat from * to end.

Next round: *p1, k1; repeat from * to end.

Knit (3) [3] (4) [4] rounds.

Next round: *k1, p1; repeat from * to end.

Next round: *p1, k1; repeat from * to end.

Knit 2 rounds.

Next round (*inc*): *RLI, k**D**; repeat from * to end.

Knit (1) [2] (2) [2] rounds.

Garter st Stripes

Next round: p all.

Next round: k all.

Next round: p all.

Knit (2) [2] (3) [3] rounds.

Next round (*inc*): *k**E**, LLI; repeat from * to end.

Next round: p all.

Next round: k all.

Next round: p all.

Knit (2) [3] (3) [3] rounds.

Next round (*inc*): *RLI, k**F**; repeat from * to end.

Knit 1 round.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
C	4	4	4	4	4	3,4	3,4	3	3	3	2,3,3	2,3,3
resulting sts	160	170	170	180	180	198	198	224	232	232	264	264
D	5	5	5	5	5	4,5	4,5	4	4	4	3,4,4	3,4,4
resulting sts	192	204	204	216	216	242	242	280	290	290	336	336
E	6	6	6	6	6	5,6	5,6	5	5	5	4,5,5	4,5,5
resulting sts	224	238	238	252	252	286	286	336	348	348	408	408
F	7	7	7	7	7	6,7	6,7	6	6	6	5,6,6	5,6,6
resulting sts	256	272	272	288	288	330	330	392	406	406	480	480

Moss st Stripe

Next 2 rounds: *k1, p1; repeat from * to end.
Next 2 rounds: *p1, k1; repeat from * to end.

Repeat previous 4 rounds (3) [3] (4) [4] <u>more</u> times.

<u>Sizes **M1, M2, L** only:</u>
Next 2 rounds: *k1, p1; repeat from * to end.

<u>All Sizes:</u>
Knit 1 round.
Next round (*inc*): *k**G**, LLI; repeat from * to end.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
G	32	34	8	16	8	15	7,8	28	14	7	24	16
resulting sts	*264*	*280*	*306*	*306*	*324*	*352*	*374*	*406*	*435*	*464*	*500*	*510*

Knit (2, 4, 4) [3, 6, 4] (2, 6, 9) [7, 8, 8] rounds straight.

Divide Yoke into Body and Sleeve sts

Next round: k **Back sts**, backward loop CO **H** sts, place right **Sleeve sts** onto waste yarn, k **Front sts**, CO **H** sts, place left **Sleeve sts** onto another piece of waste yarn. Leave BOR marker in place.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
Back sts	76	84	91	92	99	109	113	123	130	140	150	155
Sleeve sts	54	54	60	58	60	64	70	76	82	86	94	94
Front sts	80	88	95	98	105	115	121	131	141	152	162	167
H	4	6	6	12	12	12	16	16	18	18	18	22
body sts	*164*	*184*	*198*	*214*	*228*	*248*	*266*	*286*	*307*	*328*	*348*	*366*

Body

Knit (5, 3, 3) [4, 1, 3] (7, 3, 0) [2, 1, 1] rounds.

<u>Size **3X** only:</u>
Next Round: k1, m1l, k to end. *(=1 st inc'd)*

<u>All Sizes:</u>
Next round: *k1, p1; repeat from * to end.
Next round: *p1, k1; repeat from * to end.
Knit (10) [10] (12) [12] rounds st st.

> *NOTE: The previous (12) [12] (14) [14] rounds establish the seed st stripe pattern for the remainder of the body and sleeves.*

Work straight in seed st stripe pattern until piece measures 26 cm (10½ inches) from division of yoke, or (5) [5] (7) [7] cm ((2) [2] (2¾) [2¾] inches) short of desired length.

Change to body ribbing needle.
Next round: *k1, p1; repeat from * to end.

Continue working in 1x1 rib as established until ribbing measures (5) [5] (7) [7] cm ((2) [2] (2¾) [2¾] inches).

BO loosely in 1x1 rib.

Sleeves – both the same

<u>Elbow Length and Long Sleeves:</u>
Move sleeve sts from waste yarn onto gauge needle(s) for working small diameter rounds.
Join new yarn at middle of body underarm CO sts.

Next round: pick up and k**J** sts, k sleeve sts, pick up and k**J** sts.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
J	2	4	3	6	7	7	8	8	9	10	9	12
resulting sts	58	62	66	70	74	78	86	92	100	106	112	118

Knit (5, 3, 3) [4, 1, 3] (7, 3, 1) [2, 1, 1] rounds.

Next round: *k1, p1; repeat from * to end.
Next round: *p1, k1; repeat from * to end.

<u>Elbow Length Sleeves:</u>
Continue working in seed st stripe pattern (*same as body*) until sleeve measures 12 cm (5 inches) from underarm.

Change to sleeve ribbing needle(s).
Next round: k**L**, {k2 tog, k3, k2 tog, k4} **M** times, k to end.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
L	2	4	0	2	4	1	5	2	1	4	1	4
M	5	5	6	6	6	7	7	8	9	9	10	10
resulting sts	48	52	54	58	62	64	72	76	82	88	92	98

Work in 1x1 rib for (2.5) [2.5] (4) [4] cm ((1) [1] (1½) [1½] inches).

BO in 1x1 rib.

<u>Long Sleeves:</u>

Continue working in seed st stripe pattern (*same as for body*) for (16) [8] (6) [6] more rounds.

> FIT TIP: *If you wish to change the length of the sleeves, or if your row gauge differs from the pattern's, you can modify the number of rounds above, or alter the decrease rate below.*

Next round (*dec*): k2 tog, work in seed st stripe pattern to last 2 sts, ssk. (*= 2 sts dec'd*)

Continue working in seed st stripe pattern and dec again on following:

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]	
	24th	16th	14th	14th	12th	10th	8th	8th	6th	6th	5th	5th	rounds,
	3	5	6	7	5	10	12	5	13	9	9	1	times,
then on	-	-	-	-	10th	-	-	6th	4th	4th	4th	4th	rounds,
	-	-	-	-	4	-	-	10	6	12	15	25	times.
resulting sts	50	50	52	54	54	56	60	60	60	62	62	64	

Work straight in seed st stripe pattern until sleeve measures (38) [40] (40) [40] cm ((15) [15¾] (15¾) [15¾] inches), or (5) [5] (7) [7] cm ((2) [2] (2¾) [2¾] inches) short of desired length.

Next round (*decs*): k**Q**, k2 tog, {k6, k2 tog} **R** times, k to end.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
Q	4	4	5	6	6	7	1	1	1	2	2	3
R	5	5	5	5	5	5	7	7	7	7	7	7
resulting sts	44	44	46	48	48	50	52	52	52	54	54	56

Change to sleeve ribbing needle(s).

Work in 1x1 rib for (5) [5] (7) [7] cm ((2) [2] (2¾) [2¾] inches).

BO in 1x1 rib.

Collar for Optional Provisional Cast On

Remove waste yarn and place provisionally cast on sts onto smaller needle (of length for working small diameter rounds). Place marker for BOR.

FIT TIP: To make neck opening smaller or larger, work more or fewer decreases in the next round than given.

<u>Sizes **XXS, XS, S, M1, M2**</u>:

Decrease round: *k2, k2 tog; repeat from * to end.

<u>Sizes **L, XL**</u>:

Decrease round: *k1, k2 tog, k2, k2 tog; repeat from * to end.

<u>Sizes **2X, 3X, 4X**</u>:

Decrease round: *k1, k2 tog; repeat from * to end.

<u>Sizes **5X, 6X**</u>:

Decrease round: *k1, k2 tog, k1, k2 tog, k2 tog; repeat from * to end.

	(XXS	XS	S)	[M1	M2	L]	(XL	2X	3X)	[4X	5X	6X]
resulting sts	96	102	102	108	108	110	110	112	116	116	120	120

Knit 1 round.

Next round: *k1, p1; repeat from * to end.

Work in 1x1 rib as established until collar measures (2.5) [2.5] (4) [4] cm ((1) [1] (1½) [1½] inches).

BO loosely in 1x1 rib.

FINISHING

Weave in ends. Wash and dry, as instructed on yarn label.

ABBREVIATIONS

1x1 rib = *k1, p1; repeat from * to end. On following rounds, work sts as they appear.

BO = bind off

BOR = beginning of rounds

CO = cast on

dec('d)(s) = decrease(d)(s)

inc('d)(s) = increase(d)(s)

k = knit

LH = left hand

LLI = left lifted increase: insert left needle into left side of st below <u>last</u> st knitted (on right needle) from back to front, lifting it onto left needle, then knit into the back of it.

m1l = make one left knitwise: with RH needle lift bar between needles onto the LH needle so the right side of it is at the front, then knit into the back of it

m1r = make one right knitwise: with RH needle lift bar between needles onto the LH needle so the left side of it is at the front, then knit into the front of it

p = purl

pm = place marker

RLI = right lifted increase: insert right needle into right side of st below <u>next</u> st (on left needle) from back to front, place it onto left needle, then knit into the front of it

RH = right hand

RS = right side

sm = slip marker

ssk = slip 2 sts separately as if to knit, then knit together through back loops

ssp = slip 2 sts separately as if to knit, then purl together through back loops

st st = stocking stitch - if working flat: k on RS, p on WS; if working in the round: k all

st(s) = stitch(es)

tog = together

TW = turn work

WS = wrong side

yo = yarn over

HELPFUL LINKS

- Crochet Provisional Cast On: https://www.youtube.com/watch?v=R3J-sUx_whE
- Yarn Over Short Rows: https://cocoknits.com/blogs/knit-tutorials/how-to-knit-yarn-over-short-rows.
- Right and Left Lifted Increases (RLI and LL1): https://www.youtube.com/watch?v=hHzZ8JXjwr4