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A Comprehensive Guide to Handknits





chapter one Planning

Planning Your Design

RESEARCHING AND REFINING AN IDEA

Every design begins with an inspiring thought, whether fueled by a desire to satisfy a creative drive or in response to a favorite garment or other visual stimuli. There are innumerable reasons for wanting to design or replicate a garment, but the journey to a successful end begins with the same first step. That is, to carefully think about the item you plan to construct. What is its purpose—everyday wear, special occasion, gift? What do you want the design to convey—comfort, elegance, utility? What key elements are important to the look of your design—body shape and length, neck shape and depth ("V", round, square, boat, etc.), sleeve shape and length (bell or turn-back cuffs, short or full length, etc.), type of sleeve cap (raglan, set-in, dropped shoulder, etc.), and edgings, collar, buttons, and so on. Take the time to let your design ideas take shape. Draw sketches, visit your yarn shop, browse through books of stitch patterns, and envision your garment.

When you have a clear picture in your mind, you're ready to lay out a design profile. Fill out as much of the Design Profile Outline on page 13 as you can. (Photocopy this page and fill it out for every garment you make.) This will help you solidify your design ideas in preparation for generating knitting instructions.

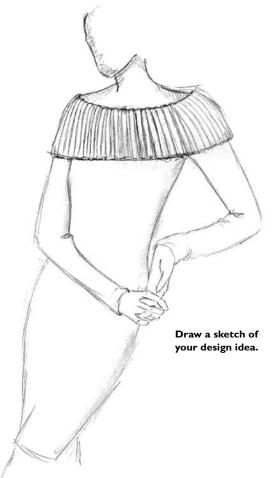
DESIGN PROFILE OUTLINE

DESIGN TROTTEE OUT	
Designer Name	
GARMENT DESCRIPTION	
Designer Overall Objectives (summarize the purpose the garment will serve for the wearer at its completion)	
Describe the feeling(s) to be projected through the garment	
(use two to four adjectives)	
Type of garment (cardigan, pullover, etc.)	
Projected wearer (male, female, child, etc.)	
Yarn name, fiber content, and size	
Needle size	
Name and source of the stitch pattern	
Finished dimensions of the gauge swatch (including number of stitches and rows)	
CONSTRUCTION ELEMENTS:	
Length (cropped, waist, hip, knee, etc.)	
Structure/shape (tapered, kimono, blouson, etc.)	
Sleeve/armhole type (dropped, set-in, raglan, etc.)	
Sleeve length (short, bracelet, wrist, thumb)	
Neckline type ("V", shawl, round, scooped, square, etc.)	
Other elements (buttons, zipper, etc.)	
(oo., Apper, o)	
Special ornaments (embroidery, crochet, beads, etc.)	
Other important elements or designer notes	

There are five key garment silhouettes, but for now you need only determine the general properties—will the garment be cropped or long; boxy or hug the curves of the body? To a large extent, the garment shape will determine the fabric selection. For example, a thick yarn and a bulky stitch pattern worked in a silhouette that stops at the hips and follows the body curves may make you look heavier, something you may or may not want.

Next, return to the yarn shop to narrow down your yarn choices and choose the pattern stitches that are best suited for your garment silhouette. Consider the "3-Fs": form, fabric, and function. Simply put, the end use of the garment (function) must be taken into consideration when selecting the yarn/stitch pattern combination (fabric), and both function and fabric must be considered together with the shape of the garment (form). The 3-Fs will help steer you toward the practical, which is easily overlooked when creativity flows.

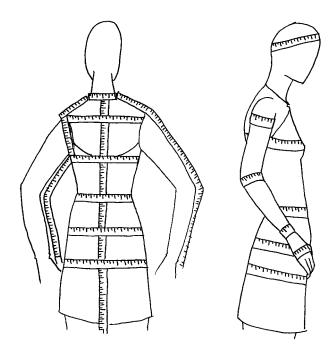
Test a few stitch patterns with a few different yarns so that you'll be able to select the combination that best conveys the "feeling"—sophisticated, trendy, sporty, conservative—that you want to achieve in your design.



LAYOUT OF THE DESIGN IDEA

You're now ready to generate a sketch of your idea, take measurements, knit a swatch of the fabric, make a chart of the stitch pattern, and draw a schematic.

Using a pencil, draw a full-page sketch of your design (place tracing paper over a photo if you're uncomfortable sketching freehand). Capture all of the design elements that appeal to you, such as an unusual cuff or neckline, an off-center front closure, collar, etc. Sketch, erase, and resketch until you're satisfied with the overall look.



Accurate body measurements are key to a perfect fit.

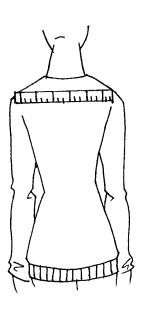
TAKING MEASUREMENTS

In designing a knitted garment, there are two important sets of measurements—body measurements and finished garment measurements. Accurate body measurements are key to a well-fitting garment. You may also need to take measurements from a garment (called a "comfort" garment) that fits the way that you want your sweater to fit. Compare these measurements to the body measurements to determine the amount of ease—the difference between the garment measurements and the actual body measurements—that you want to add.

Body Measurements

You'll get the most accurate body measurements if you wear just your undergarments, a body suit, or a form-fitting tunic. Stand in front of a mirror to make sure you're standing straight and holding the tape measure in the correct place. Ideally, another person should take the measurements as you observe in the mirror. Measure all of the parts of the body listed in the Individual Measurements Worksheet on page 19. If you want to work to a general size instead of taking your own measurements, refer to the Standard Body Measurements Charts on pages 328 to 331.

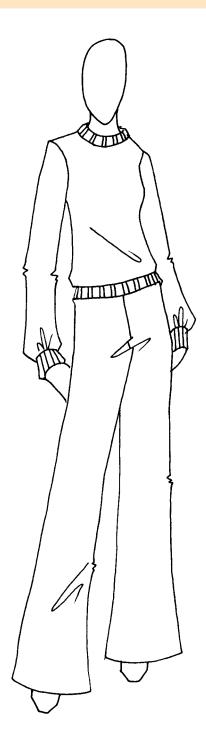
> Shoulder Width: Measure across the back between the shoulder bones, where a set-in sleeve seam would end. Round the shoulders so that the tops of the shoulder bones are easier to feel, then stand up straight with good posture and measure across the top of the back from the outside top of one shoulder bone to the other.



shoulder width



*chapter three*Classic Silhouette Pullover



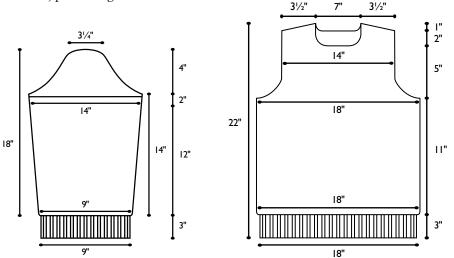
In this chapter, we'll go through the construction process and introduce important design techniques that will be used throughout the book. We will create step-by-step instructions from a working schematic that has the widthwise and lengthwise measurements translated into numbers of stitches and rows based on the gauge measurements. To illustrate these steps, we'll build the most common shape—a pullover with a classic body silhouette worked in four pieces (a front, a back, and two identical sleeves) all worked upward from the lower edge.

The "blueprint" for your garment is really a series of worksheets and charts. The first shows all the essential numbers and measurements necessary for shaping your garment translated into stitches and rows. These numbers annotate the working schematic—a drawing of the garment pieces that includes all measurements, corresponding stitch or row numbers, gauge numbers, pattern repeats, and other pertinent information. The final worksheet creates the step-by-step calculations and instructions needed to construct your garment—increases, decreases, pick-up layouts, and shaping. If you plan to write a formal pattern, add a list of every technique you plan to use. This will become the "notes" section of your written pattern.

For garments planned with stitch patterns other than stockinette, you will need an additional worksheet to plan the flow of the stitch pattern so that it is centered both widthwise and lengthwise on the body and sleeves. Always chart several stitch and row pattern repeats to ensure a clear picture of the stitch pattern flow. Make a series of small charts to examine how the pattern will flow across the side seams of a pullover, between body and sleeves, and across the front opening of a cardigan.

Designing handknits is not a complicated process; it is simply a matter of following a series of logical steps. If you have followed the instructions for selecting yarn, making a gauge swatch, drawing a sketch, and taking body and garment measurements, you have gathered all of the necessary "tools" for laying out your garment. The balance of the process is the equivalent of assembling the pieces.

In a classic silhouette, the width of the front and back is the same from the cast-on edge to the base of the armholes. Our example pullover measures 36" (91.5 cm) at the bust (18" [45.5 cm] width) and includes set-in sleeves, a high round neck, and shaped shoulders. The body and sleeves are worked in stockinette stitch and edged with k1, p1 ribbing.



Classic silhouette schematic.

Conversion of Measurements to Numbers of Stitches and Rows

WIDTHS

Number of stitches in border (hip width × border stitch gauge) 18" (45.5 cm) × 6.5 stitches/inch = 117 stitches

Number of stitches at base of body (hip width \times body stitch gauge + 2 selvedge stitches) 18" (45.5 cm) \times 5.5 stitches/inch + 2 selvedge stitches = 101 stitches

Number of stitches in bust width (bust width × body stitch gauge + 2 selvedge stitches)

18" (45.5 cm) × 5.5 stitches/inch + 2 selvedge stitches = 101 stitches

Number of stitches in cross-back (shoulder-to-shoulder width × body stitch gauge + 2 selvedge stitches)

14" (35.5 cm) × 5.5 stitches/inch + 2 selvedge stitches = 79 stitches

Number of stitches in neck width (neck width × body stitch gauge)

7" (18 cm) × 5.5 stitches/inch = 38.5 stitches; round up to nearest odd number = 39

Number of stitches in each shoulder (shoulder width \times body stitch gauge + I selvedge stitch) $3\frac{1}{2}$ " (9 cm) \times 5.5 stitches/inch + I selvedge stitch = 20.25 stitches; round down to nearest even number = 20 stitches

LENGTHS

Number of rows in border (border length × border row gauge)

3" (7.5 cm) × 9 rows/inch = 27 rows; round up to nearest even number = 28 rows

Number of rows from beginning of body to base of armhole (length × body row gauge)

11" (28 cm) × 7.5 rows/inch = 82.5 rows; round down to nearest even number
= 82 rows

NEEDLES

Border: Size U.S. 4 (3.5 mm) Body: Size U.S. 6 (4 mm)

SWATCH MEASUREMENTS

Border (k1, p1 ribbing): 52 stitches = 8" (20.5 cm) wide; 54 rows = 6" (15 cm) long (Note: measurements are averaged between the relaxed and stretched states; see page 69).

Body (stockinette stitch): 44 sts = 8" (20.5 cm) wide; 60 rows = 8" (20.5 cm) long

GAUGE

Border (kl, pl ribbing): 6.5 stitches and 9 rows = I" (2.5 cm)

Body (stockinette stitch): 5.5 stitches and 7.5 rows = I" (2.5 cm)

KEY MEASUREMENTS

Bust circumference: 34" (86.5 cm) + 2" (5 cm) ease = 36" (91.5 cm) Bust width: 18" (45.5 cm) Cross-back width: 14" (35.5 cm) + 0" ease

= 14" (35.5 cm)

Neck width: 7" (18 cm)

Shoulder width: 3½" (9 cm)

Length from bottom to base of armholes: 3" (7.5 cm) for lower ribbing + 11" (28 cm)

for lower body = 14" (35.5 cm) **Armhole depth:** 6" (15 cm) + 1" (2.5 cm)

ease = 7" (18 cm)

Length from base of armholes to base of front neck: 5" (12.5 cm)
Length from base of front neck to base

of shoulder: 2" (5 cm) Shoulder slope: 1" (2.5 cm)

Notes

- A garter-stitch selvedge (knit every row) is added to each end of all rows in the stockinette-stitch portions to facilitate seaming.
- Rows are worked in pairs (a right-side row followed by a wrong-side row) so all row numbers are rounded to even numbers.
- Measurements include ease allowance.
- The front and back are worked identically to the beginning of the neck shaping; the front neck is shaped differently than the back neck.
- Both sleeves are worked identically.

PATTERN SYMMETRY

Pattern symmetry is important for balancing the pattern at the edge and is critical for a professional finished look along the seams. In the same way that selvedges are used as seaming stitches for the body of the garment, seaming stitches are also used for cuffs and borders. Seams are worked just inside these edge stitches. Seaming a knit stitch to a purl stitch can create a less-than-professional look if the k1, p1 stitch pattern is left unaltered. Therefore, another stitch should be added to the multiple so that there will be a knit stitch at each end of the needle. This will make the pattern a multiple of 2 stitches plus I balancing stitch so that there will be a knit stitch at each edge, which will curl to the wrong side. When seaming, reach across the knitted edge stitches and seam the first purl stitches on each side together for the side seams to look invisible as the seamed purl stitches appear as a single stitch.

Number of rows from base of armhole to base of front neck (length × body row gauge)

5" (12.5 cm) × 7.5 rows/inch = 37.5 rows; round up to nearest even number

= 38 rows

Number of rows from base of front neck to base of shoulder (length \times body row gauge) 2" (5 cm) \times 7.5 rows/inch = 15 rows; round down to nearest even number = 14 rows

Number of rows in armhole (armhole length × body row gauge)

7" (18 cm) × 7.5 rows/inch = 52.5 rows; round down to nearest even number = 52 rows

Number of rows in shoulder slope (length × body row gauge)

I" (2.5 cm) × 7.5 rows/inch = 7.5 rows; round up to nearest even number = 8 rows

Number of rows from base of armhole to base of back neck (length × body row gauge)

71/4" (18.5 cm) × 7.5 rows/inch = 54.5 rows; round to the nearest even number

= 54 rows

Number of rows from base of back neck to top of shoulder (length \times body row gauge) $\frac{3}{4}$ " (2 cm) \times 7.5 rows/inch = 5.6 rows; round up to the nearest even number = 6 rows

MATH CHECK!

The total number of rows worked should add up to the desired total length.

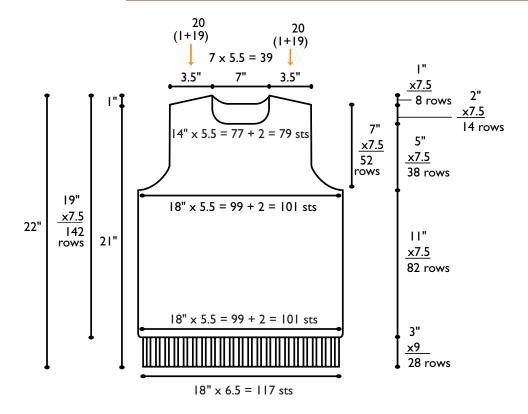
Total rows: 28 + 82 + 38 + 14 + 8 = 170 rows

Length in ribbing: 3" (7.5 cm) × 9 rows/inch = 28 rows

Length in stockinette stitch: | | | | (28 cm) + 5| (| 2.5 cm) + 2| (| 5 cm)

 $+ 1" (2.5 cm) \times 7.5 rows/inch = 142 rows$

Total length in ribbing and stockinette stitch: 28 rows + 142 rows = 170 rows



Schematic of the example classic body silhouette annotated with numbers of stitches and rows.



I always recommend knitting the back first so that any unanticipated problems can be worked out where they will be less noticeable. This also allows you to become familiar with your stitch pattern and establish a smooth tension before beginning the front. However, for figuring out the knitting instructions, we'll begin with the front, which typically has more steps than the back.

Step 1: Cast-On and Ribbing/Border

The front begins with stitches cast on for the lower edge, which are worked in k1, p1 ribbing on the smaller needles. We therefore need to calculate the number of stitches to cast on based on the gauge of the ribbing.

To allow for the stretch in ribbing, calculate the gauge based on the average between its relaxed and expanded states as described below. For our example, the ribbing swatch contains 40 stitches and measures 5" (12.5 cm) wide when relaxed and 8" (20.5 cm) wide when stretched. Divide the number of stitches by the width to get the gauge for each:

```
Relaxed: 40 stitches ÷ 5" (12.5 cm) = 8 stitches/inch
Stretched: 40 stitches ÷ 8" (20.5 cm) = 5 stitches/inch
Average: (8 stitches/inch + 5 stitches/inch) \div 2 = 6.5 stitches/inch
```

We know that we want the lower edge of our sweater to measure 18" (45.5 cm) wide. Multiply this width by the averaged gauge to determine the number of stitches for the ribbing.

```
18" (45.5 cm) × 6.5 stitches/inch = 117 stitches
```

The row gauge for the ribbing is $9 \text{ rows} = 1^{\circ} (2.5 \text{ cm})$, and the pattern is planned for 3" (7.5 cm).

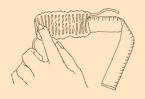
 $9 \text{ rows} \times 3" (7.5 \text{ cm}) = 27 \text{ rows}$

AVERAGING RIBBING GAUGE

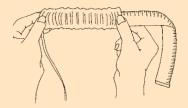
To allow for the stretch in ribbing, calculate the gauge based on the average between its relaxed and expanded states (so that it will be neither too baggy nor too tight). To do this, knit a swatch that measures about 6" (15 cm) wide and 3" (7.5 cm) long. Measure the width of the swatch with the ribbing relaxed, then measure it again while stretching it as much as you feel necessary to give the desired cling. Do not stretch the ribbing as far as it will go unless that's the way you want the border to fit around your body. The measurements will give the "relaxed" and "stretched" gauges.

Ribbing looks "baggy" when it is too close to the desired width when relaxed. Remember that in ribbing the purl stitches tend to recede on the front and push out as knit stitches on the reverse side of the fabric. In effect, they visually disappear when the ribbing is relaxed, but they do add width when the ribbing is stretched to any degree. Therefore, there will be far too much fabric in the ribbing if it isn't stretched when the gauge is determined. This will cause the border to be heavy and wobble out of shape.

To begin, divide the number of stitches in the swatch by the relaxed width to get the relaxed gauge (in stitches/inch), then divide the number of stitches by the stretched width to get the stretched gauge (in stitches/inch). To get the averaged gauge, add the two gauges together, then divide the sum by two.



Measure the width of the ribbing in its relaxed state.



Measure the width of the ribbing stretched the desired amount.

CLASSIC BODY WORKSHEET

NEEDLE SIZE			
	Neck width		
Border Body	Shoulder width		
SWATCH MEASUREMENTS	Length from bottom of garment to base of armholes		
Border Stitch pattern	Notch width (modified-drop shoulder)		
Body Stitch pattern	Armhole depth (set-in sleeve)		
	Length from base of armholes to base of front neck		
GAUGE For ribbing, measure the averaged gauge (see page 69).			
Border stitch gauge	Length from beginning of front neck to base of shoulders		
Border row gauge			
Body stitch gauge	Shoulder slope		
Body row gauge	Neck-to-wrist measurement		
	Percentage of stitches in initial front-neck bind-off		
KEY MEASUREMENTS (INCLUDING EASE)			
Bust circumference	Percentage of stitches in initial back-neck bind-off		
Bust width			
Cross-back width			

Fill out the information on this page and use it in conjunction with your schematic to create step-by-step knitting instructions.

CALCULATIONS FOR NUMBERS OF STITCHES AND ROWS

Number of stitches in border (hip width × border stitch gauge)

Number of stitches at base of body

(hip width × body stitch gauge + 2 selvedge stitches)

Number of stitches in bust width

(bust width × body stitch gauge + 2 selvedge stitches)

Number of stitches in notch (modified drop-shoulder only)

(notch width × body stitch gauge)

Number of stitches in cross-back

(shoulder-to-shoulder width × body stitch gauge + 2 selvedge stitches)

Number of stitches in neck width

(neck width × body stitch gauge)

Number of stitches in each shoulder

(shoulder width × body stitch gauge + I selvedge stitch)

Number of rows in border

(border length × border row gauge)

Number of rows from beginning of body to base of armhole

(length × body row gauge)

Number of rows from beginning of body to base of front neck

(length × body row gauge)

Number of rows from beginning of body to base of back neck

(length × body row gauge)

Number of rows from beginning of body to base of shoulder

(length × body row gauge)

Number of rows from base of armhole to base of front neck

(length × body row gauge)

Number of rows from base of front neck to base of shoulder

(length × body row gauge)

Number of rows in notch (modified-drop shoulder)

(notch depth × body row gauge)

Number of rows in armhole (armhole length × body row gauge)

Number of rows in shoulder slope (length × body row gauge)

Number of rows from base of armhole to base of back neck

(length × body row gauge)

Number of rows from base of back neck to base of shoulder

(length × body row gauge)

Fill out the information on this page and use it in conjunction with your schematic to create step-by-step knitting instructions.

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Shirley Paden is the owner and founder of Shirley Paden Custom Knits. Her designs and articles have appeared in *Interweave Knits*, *Knitters*, and *Vogue Knitting*. She has been featured in the Interweave Knits Designer Interview series, in the Vogue Knitting Designer Notebook series, and on HGTV. Shirley also teaches and lectures on various aspects of handknitting, including lace, entrelac, cables, color knitting, and finishing techniques. She lives in New York City.

