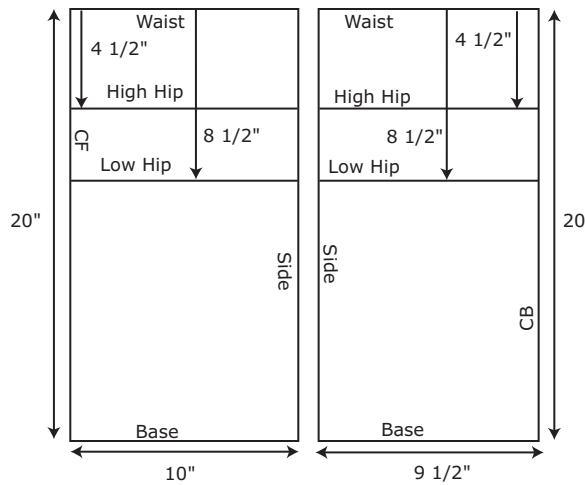
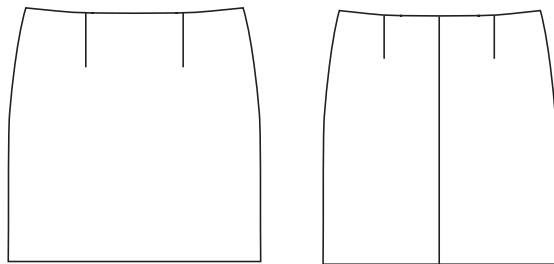


The example has a sloper length of 20" and a low hip measurement plus ease of 39". Calculating the low hip measurement with ease gives a front low hip calculation of 10" and a back low hip calculation of 9 1/2". The high hip depth guideline is drawn at 4 1/2" and the low hip depth guideline is drawn at 8 1/2".



SLOPERS



ONE-DART SLOPER

Front

Begin with the front skirt block and mark the four corners **A**, **B**, **C** and **D** as shown.

EF = front high hip calculation on the guideline measured from the center front

GH = front low hip calculation on the guideline (as the skirt block width)

AI = dart distance as chart (See *Darts, Front.*)

IJ = dart width (See *Darts, Dart Width Chart.*)

JK = remainder of the front waist calculation after subtracting dart distance (**AI**)

For example, if the front waist calculation is 7 1/4", and the **AI** dart distance is 3 1/4", then the remainder of the front waist calculation (**JK**) is 4".

L = center of the dart width

LM = length of dart as chart (See *Darts, Dart Length Chart.*)

AN = 1/2" waist shaping to gently curve the waistline

A waistline is never drawn straight across at a right angle to the center front (or back). This would create wrinkles below the waist and such a straight line would appear to cut the client in half.

Connect **N-K** for the waist shaping in a shallow curve. Draw a right angle at **N**, off **NE** for 3/4" before shaping to **K**. Squaring off for 3/4" will prevent the center front from coming to a point.

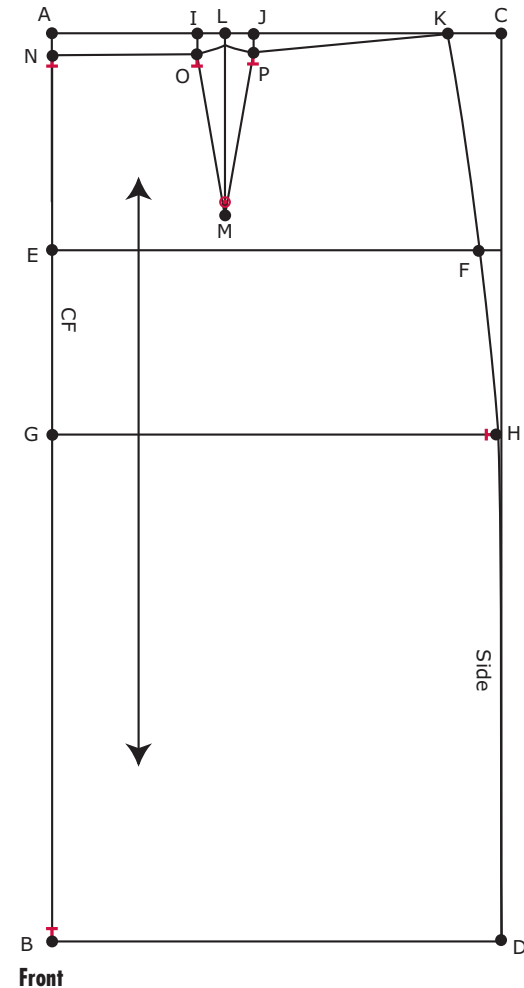
OP = bring dart legs **I** and **J** straight down to meet the waist shaping, keeping the dart width as **IJ**.

Mark **O** and **P** on the **NK** line.

Connect **O-M-P** for the dart legs. Make sure the dart legs are the same length by adjusting the top of the second dart leg at **P** as necessary.

Fold **P** toward **O** and trace the waistline over the dart bulk so the dart bulk is flush with the waistline. Unfold.

If a client has a protruding stomach, pressing the dart bulk toward the side seam will create a smoother line from stomach to side rather than



accentuating the stomach which can happen when dart bulk is pressed toward the center front.

Measure **NK**, excluding the dart width **OP** (as that width will be sewn out) to check the front waist calculation. Adjust at **K** if necessary.

Connect **K-F-H-D** for the side shape. The shape should be fairly straight. Avoid extreme shaping at the side because it will most likely cause a bubble that will have to be shaved down.

Smooth the pattern at the high hip and low hip at side if necessary. Be conservative with

Make sure the dart legs are even by adjusting at **V** as necessary.

Fold the dart bulk toward the side and trace off so the dart bulk is flush with the waistline.

Connect **U-Q-V** for the legs of the second dart.

Measure **RO**, excluding the dart widths **ST** and **UV** (as those widths will be sewn out) to check the front waist calculation. Adjust at **O** if necessary.

Connect **O-F-H-D** for the side shape. Smooth the pattern at the high hip and low hip at side if necessary.

Note the distance between **C** and **O**.

Front Pattern: **R-S-T-U-V-O-F-H-D-B-G-E-R**, including the darts.

Notch the low hip at the side. Always notch the center front at the top and bottom when cut on a fold.

The dart legs are notched and the point is awl-punched.

Draw a length grainline.

Cut 1 on fold — self.

Back

Begin with the back skirt block and mark the four corners **A**, **B**, **C** and **D** as shown.

AE = $3/8$ " in for back contouring at center back

AF = 7"

Connect **E-F** for center back contouring. Square down from **E** for $1/2$ ".

G = high hip at center back on the **EF** line

GH = back high hip calculation on the guideline

IJ = back low hip calculation on the guideline

Divide the back waist calculation into three parts. For example, if the back waist calculation is $6\ 3/4$ ", the division is $2\ 1/4$ ", $2\ 1/4$ " and $2\ 1/4$ ".

EK = one-third the back waist calculation for placement of the first dart (See *Darts, Back*.)

KL = first dart width as front less $1/4$ " to accommodate part of the $3/8$ " back contouring (**AE**)

For example, if the first front dart width is 1", subtract $1/4$ " leaving a back dart width of $3/4$ ".

M = center of the first dart width

LN = distance between the darts, which is one-third the back waist calculation (See *Darts, Back*.)

NO = second dart width as front less $1/8$ " to accommodate part of the $3/8$ " back contouring

The amount of back contouring ($3/8$ " **AE**) needs to be taken from the dart widths. $1/4$ " was taken from the first dart width and $1/8$ " is taken from the second dart width ($1/4$ " + $1/8$ " = $3/8$ ").

P = center of the second dart width

OQ = remainder of the back waist calculation which is one-third the back waist calculation (See *Darts, Back*.)

MR = length of the first dart as chart (See *Darts, Length*.)

PS = length of the second dart as chart (See *Darts, Length Chart*.)

ET = $1/2$ " waist shaping to gently curve the waistline

Square straight down from **E** to **T** to maintain the $3/8$ " back contouring.

Connect **T-Q** for the waist shaping in a shallow curve. Draw a right angle at **T** for $3/8$ " before shaping to **Q**.

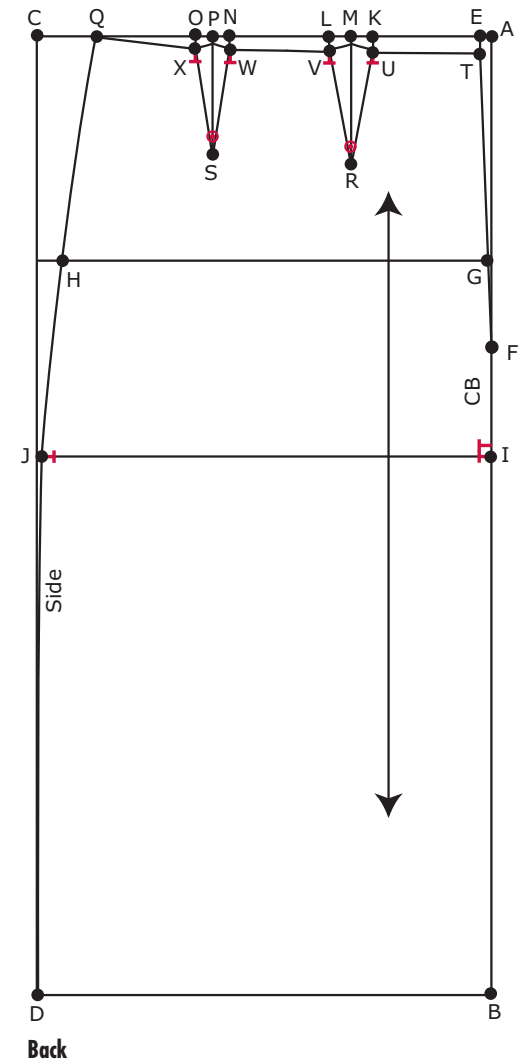
UV = bring the dart legs **K** and **L** straight down to meet the waist shaping (**TQ**), keeping the dart width as **KL**. Mark **U** and **V** on the **TQ** line.

Make sure the dart legs are even by adjusting at **V** as necessary.

Connect **U-R-V** for the legs of the first dart.

WX = bring the dart legs **N** and **O** straight down to meet the waist shaping (**TQ**), keeping the dart width as **NO**. Mark **W** and **X** on the **TQ** line.

Make sure the dart legs are even by adjusting at **V** as necessary.



Fold the dart bulk toward the center back and trace off so the dart bulk is flush with the waistline.

Connect **U-R-V** for the legs of the first dart.

WX = bring the dart legs **N** and **O** straight down to meet the waist shaping (**TQ**), keeping the dart width as **NO**. Mark **W** and **X** on the **TQ** line.