# DESIGNING \& PATTERNMAKING 

 FOR STRETCH FABRICS
## BIKINI BOTTOMS



You may expect that you can just cut off a Leotard to create a Bikini, but remember, the length measurements were reduced to accommodate the lengthwise stretch of the fabric. Once the Leotard is cut, it will spring back \& be lower down on the body.

You must create a separate Bikini slope that does not have as much lengthwise reduction.

## 4-WAY-STRETCH REDUCTIONS



Note that the crotch depth is multiplied $\mathrm{X} \mathbf{0 . 9 5}$, a reduction of $\mathbf{5 \%}$, because the 4 -way-stetch reduction of $\mathbf{1 0 \%}$ is too much, \& a 0\% reduction, as in 1-way-stretch, is too little \& will cause the crotch to sag.

This draft is for the Bikini bottom, \& should be used with 4-way-stretch fabrics.

|  |  | Waist | Hip | Crotch depth |
| :---: | :---: | :---: | :---: | :---: |
| Multiply by: | $\mathbf{0}$ | $\mathbf{X 0 . 9 0}$ | $\mathbf{X 0 . 9 0}$ | $\mathbf{X 0 . 9 5}$ |
| Extra-Extra <br> Small | $\mathbf{0}$ | $21+1 / 8$ | 31 | 9 |
| Extra Small | $\mathbf{2}$ | 22 | 32 | $9+1 / 8$ |
| Small | $\mathbf{6}$ | 23 | $32+7 / 8$ | $9+1 / 4$ |
| Medium | $\mathbf{1 0}$ | $23+7 / 8$ | $33+3 / 4$ | $9+3 / 8$ |
| Large | $\mathbf{1 4}$ | $24+3 / 4$ | $34+5 / 8$ | $9+1 / 2$ |
| Extra Large | $\mathbf{1 8}$ | $26+1 / 8$ | 36 | $9+5 / 8$ |
| Extra-Extra <br> Large | $\mathbf{2 0}$ | $27+1 / 2$ | $37+3 / 8$ | $9+5 / 8$ |


|  |  |  |
| :---: | :---: | :---: |
| Draw intersecting lines, \& measure the waist amount \& the crotch depth amount. | Square a line at the crotch depth, mark with the hip measurement, \& square a guideline up to the waist. | Divide the guideline into thirds. |


|  | Waist | Quarter <br> of <br> waist | Crotch <br> depth | Hip | Quarter <br> of hip | Crotch <br> depth | Thirds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Extra- <br> Extra <br> Small | $21+1 / 8$ | $5+1 / 4$ | 9 | 31 | $7+3 / 4$ | 9 | 3 |
| Extra <br> Small | 22 | $5+1 / 2$ | $9+1 / 8$ | 32 | 8 | $9+1 / 8$ | 3 |
| Small | 23 | $5+3 / 4$ | $9+1 / 4$ | $32+7 / 8$ | $8+1 / 4$ | $9+1 / 4$ | $3+1 / 8$ |
| Medium | $23+7 / 8$ | 6 | $9+3 / 8$ | $33+3 / 4$ | $8+1 / 2$ | $9+3 / 8$ | $3+1 / 8$ |
| Large | $24+3 / 4$ | $6+1 / 4$ | $9+1 / 2$ | $34+5 / 8$ | $8+5 / 8$ | $9+1 / 2$ | $3+1 / 8$ |
| Extra <br> Large | $26+1 / 8$ | $6+1 / 2$ | $9+5 / 8$ | 36 | 9 | $9+5 / 8$ | $3+1 / 4$ |
| Extra- <br> Extra <br> Large | $27+1 / 2$ | $6+7 / 8$ | $9+5 / 8$ | $37+3 / 8$ | $9+3 / 8$ | $9+5 / 8$ | $3+1 / 4$ |

THE BIKINI FRONT

|  |  |  |
| :---: | :---: | :---: |
| Draw in the hip curve by placing \#4 of the variform curve at the waist, blending as well as possible to the lower mark on the outseam. | Divide the upper hip line into 4 equal sections. | Mark a guideline $1+1 / 2$ inches from the center front. |
|  |  |  |
| Find the bias in the intersection \& measure down $1+3 / 8$ inches. | Draw guideline parallel to the side seam that lines up with the mark on the horizontal guideline. | Measure up the guideline $1 / 2+1 / 2+1 / 2$ inches. |



THE BIKINI BACK



BLENDING \& TRUEING

|  |
| :--- |
| Line up the crotch <br> seams across from each <br> other $\&$ blend the curve. |
| Place the front \& back <br> beside each other $\&$ walk <br> the side seams down from <br> the waist. <br> increase the size of the <br> crotch by $1 / 4$ inches to <br> make the curve smooth <br> enough for elastic. |
|  <br> continuous sexy line. |

## BIKINI WITH LOWERED WAIST

|  |  |  |
| :---: | :---: | :---: |
| This draft illustrates a lowered waist Bikini bottom. | Lower the waist by as much as your design requires, illustrated here at $1+1 / 2$ inches. | Add the necessary seam allowances. |
|  |  |  |
| Create a Bikini bottom that ties on the side by following these drafting instructions: | Lower the waist, \& extend the side seams 5 inches on all sides to create the tie extension. | You can leave the ends squared or you can blend them into curves. |

## BRAZILIAN HIGH-CUT SWIMSUIT

Ther
This swimsuit has a very
high leg, with a very low
front $\&$ back.

## STRING BIKINI

| A Bikini that ties at the side is easy to <br> draft. | Create the Brazilian high-cut <br> swimsuit bottom draft as shown <br> previously. Simply cut the pattern lower <br> \& finish the waist edges with binding <br> ties. |
| :--- | :--- |

THONG, G-STRING, \& T-BACK

|  |  |
| :---: | :---: |
| For the Thong, G-string, or T-back, lowers the waist $1+1 / 2$ inches. | Draw a line parallel to the new waist, 1 inch lower. |
|  |  |
| Square the ends of the sides, using the smallest waist. | The Thong has a center strap that measures $1 / 2$ inch total, $1 / 4$ inch for each side, \& uses $2 \times 1 / 4$ inches elastic on each side. <br> Shape the center back as required. |

