

## Drafting The Female Body Sloper

1. Begin by drawing a rectangle, $a b c d$, where $a c$ is the back nape to waist measurement + the width of the bust dart, and line $a b$ is $1 / 2$ the bust measurement.
2. Divide the rectangle in half vertically, line $h g$, and horizontally, line $e f$.
3. Divide the upper section in half horizontally, line $i j$.
4. Label the intersections $k$ and $l$, as shown.


Previous portions of the drawing have been grayed for clarity.

## Neckline

5. Mark point m 3" to the right of point $b$ and $1 / 2$ " up from line $h b$.
6. Mark point $n$ on line bd 2-1/5" down from point $b$.
7. Connect points $m$ and $n$ with a curve.

## Neck To Shoulder

8. Draw a dotted line 1-3/8" below line $h b$.
9. Place the end of your ruler on point m and angle it until the ruler touches line $q r$ at the neck to shoulder measurement. Label point $o$.

## Armhole

10. Mark point $p$ on line $k j, 1 / 2$ the front width measurement from point $j$.
11. Connect $p$ with $l$ with a gently curving line.


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## Neckline

5. Mark point $m 3$ " to the right of point $b$ and $1 / 2$ " up from line $h b$.
6. Mark point $n$ on line bd 2-1/5" down from point $b$.
7. Connect points $m$ and $n$ with a curve.

## Neck To Shoulder

8. Draw a dotted line 1-3/8" below line $h b$.
9. Place the end of your ruler on point $m$ and angle it until the ruler touches line $q r$ at the neck to shoulder measurement $+1 / 2^{\prime \prime}$. Label point $o$.

## Armhole

10. Mark point $p$ on line $k j, 1 / 2$ the front width measurement from point $j$.
11. Connect $p$ with $l$ with a gently curving line.


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## Bust Dart

12. Mark line $t s 1 / 2$ the width of the bust point to bust point measurement from line fd.
13. Place the end of your rule in the center of line $m o$ and angle it until it crosses line $t s$ at the center shoulder to bust point measurement. Label point $u$.
14. Measure the distance between points $t$ and $u$. Mark point $v$ that distance down from point $l$ on line $l g$.
15. Mark point $w$ the width of the bust dart down from point $v$ on line $l g$.
16. Mark point $x 1 / 2$ the width of the bust dart up from point $w$ on line $l g$. Connect point $u$ with point $x$.
17. Draw a similar line $1 / 2$ the width of the bust dart down from point $w$.
18. Measure line $u x$. Mark point $y$ on the bottom bust dart line from point $u$ the distance of $u x$.


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## Waist Dart

19. Mark points $z$ and $A 1 / 2$ the width of the waist dart to either side of point s. 20. Connect $z$ and $A$ with point $u$.

## Waist and Side Seam

21. Mark point $B 1 / 4$ the waist measurement + the width of the waist dart $+1 / 4$ " from point $d$ on line $c d$.
22. Connect points $y$ and $B$ with a straight line.


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## Back Neckline

23. Mark point $C 2-1 / 2^{\prime \prime}$ right of point $a$ and $1 / 2^{\prime \prime}$ up from line $a b$.

24 . Connect points $C$ and $a$ with a gently curving line.

## Back Neck To Shoulder

25. Mark point $D$ right of point $i$ on line $i k 1 / 2$ the back width measurement.
26. Mark point $E 3$ " up from point $D$.
27. Place the end of your ruler on point $C$ and angle it until it crosses point $E$. Mark point $F$ at the neck to shoulder measurement.
28 . Connect $F$ and $D$ with a straight line.
29 . Connect $D$ and $l$ with a gently curving line.


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## Back Side Seam

30. Mark point $G$ on line $c d 1 / 4$ the waist measurement + the width of the waist dart minus $1 / 4^{\prime \prime}$. Draw a straight line up from point $G$ to line $e l$.
31. Measure line $y B$. Place the end of your ruler on point $x$ and angle it until it crosses the vertical line at the length of line $y B$. Label point $H$.
32. Draw a line from point $H$ to line $a c$ parallel to line $c d$. Label point $I$.

## Back Waist Dart

33. Mark point $J 1 / 2$ the back width measurement $+1 / 2^{\prime \prime}$ from point $I$ on line $I H$.
34. Mark point $M$ the distance of $I J$ on line $e l$. Connect points $M$ and $J$ with a straight line.
35. Mark points $K$ and $L 1 / 2$ the waist dart on either side of point $J$. Connect points $K$ and $L$ to point $M$ with straight lines.


## Drafting the Sleeve Sloper

1. Draw a rectangle, $a b c d$, where $a b / c d$ is the bicep measurement +3 ", and $a c / b d$ is the shoulder to wrist measurement.
2. Mark point $e$ on line $a b$, halfway between points $a$ and $b$. Mark point $f$ on line $c d$, halfway between points $c$ and $d$. Connect points $e$ and $f$ with a straight line.
3. Mark point $g$ on line $a c$ down from point $a$ the length of the shoulder to wrist measurement minus the underarm measurement. Mark point $h$ in the same fashion on line $b d$.

4. Mark point $i$ on line $c f, 1 / 2$ the wrist measurement $+1 / 2^{\prime \prime}$ from point $f$. Mark point $j$ on line $f d, 1 / 2$ the wrist measurement $+1 / 2$ " from point $f$.
5. Connect points $g$ and $i$, and $h$ and $j$ with straight lines.
6. Connect points $g$ and $e$, and points $h$ and $e$ with straight lines. These will be used for reference, so it is not necessary to mark them heavily.
7. Label the intersection of lines $g h$ and ef point $k$.
8. Divide rectangles agek and ekbh vertically into three equal sections each.
9. Working from left to right, mark a point on each of the vertical reference lines, relative to the diagonal reference lines, as follows:

- 3/4 below the diagonal reference line
- 3/4 above the diagonal reference line
- point e
- 3/4 above the diagonal reference line
- at the intersection of the reference lines


10. Draw a gentle curve through each of the reference points. Left of center is the front of the sleeve. Right of center is the back of the sleeve.
