Drafting The Female Body Sloper

1. Begin by drawing a rectangle, $abcd$, where $ac$ is the back nape to waist measurement + the width of the bust dart, and line $ab$ is 1/2 the bust measurement.

2. Divide the rectangle in half vertically, line $hg$, and horizontally, line $ef$.

3. Divide the upper section in half horizontally, line $ij$.

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 hb.
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 hb.
9. Place the end of your ruler on point m and angle it until the ruler touches line qr at the neck to shoulder measurement. Label point o.

**Armhole**
10. Mark point p on line kj, 1/2 the front width measurement from point j.
11. Connect p with l with a gently curving line.
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 \( hb \).
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 \( hb \).
9. Place the end of your ruler on point \( m \) and angle it until the ruler touches line \( qr \) at the neck to shoulder measurement + 1/2”. Label point \( o \).

**Armhole**
10. Mark point \( p \) on line \( kj \), 1/2 the front width measurement from point \( j \).
11. Connect \( p \) with \( l \) with a gently curving line.
Previous portions of the drawing have been grayed for clarity.

**Bust Dart**

12. Mark line *ts* 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 *mo* and angle it until it crosses line *ts* 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 *lg*.

15. Mark point *w* the width of the bust dart down from point *v* on line *lg*.

16. Mark point *x* 1/2 the width of the bust dart up from point *w* on line *lg*. 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 *ux*. Mark point *y* on the bottom bust dart line from point *u* the distance of *ux*. 
Previous portions of the drawing have been grayed for clarity.

**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 $cd$.

22. Connect points $y$ and $B$ with a straight line.
Previous portions of the drawing have been grayed for clarity.

**Back Neckline**

23. Mark point C 2-1/2” right of point a and 1/2” up from line ab.
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 ik 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.
Previous portions of the drawing have been grayed for clarity.

**Back Side Seam**

30. Mark point $G$ on line $cd$ 1/4 the waist measurement + the width of the waist dart minus 1/4”. Draw a straight line up from point $G$ to line $el$.

31. Measure line $yB$. Place the end of your ruler on point $x$ and angle it until it crosses the vertical line at the length of line $yB$. Label point $H$.

32. Draw a line from point $H$ to line $ac$ parallel to line $cd$. Label point $I$.

**Back Waist Dart**

33. Mark point $J$ 1/2 the back width measurement + 1/2” from point $I$ on line $IH$.

34. Mark point $M$ the distance of $IJ$ on line $el$. 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, \( abcd \), where \( ab/cd \) is the bicep measurement + 3”, and \( ac/bd \) is the shoulder to wrist measurement.

2. Mark point \( e \) on line \( ab \), halfway between points \( a \) and \( b \). Mark point \( f \) on line \( cd \), halfway between points \( c \) and \( d \). Connect points \( e \) and \( f \) with a straight line.

3. Mark point \( g \) on line \( ac \) 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 \( bd \).
4. Mark point $i$ on line $ef$, $1/2$ the wrist measurement + $1/2”$ from point $f$. Mark point $j$ on line $fd$, $1/2$ 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 $gh$ 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.