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Leena's Pattern Drafting Lessons: Men's pants

➤ [Metric conversion table](#)

This lesson shows how the patterns for the men's basic pants are drafted. The pattern drafting method used is the German Müller & Sohn but it has been slightly modified.

MEASURING

➤ [Click here](#) to move to the measuring page. Read carefully the measuring instructions. To draft patterns for pants, you have to take the measurements listed in the table below. To keep the pictures clear and readable the measurements are given only in centimeters. You can change centimeters to inches using formula $1 \text{ cm} = 0.4 \text{ inches}$.

ADDING EASE

You would not be able to wear the pants if the patterns were drafted exactly to your body measurements. Therefore you have to add ease to some of the measurements. The basic pants usually are a tight fitting garment and therefore only a small amount of ease is added.

ADD TO THE WAIST CIRCUMFERENCE: 4 cm
 ADD TO THE HIP CIRCUMFERENCE: 4 cm
 Do not add any ease to other measurements.

Write down the measurements in the table below.

	Body measurement	Body measurement + ease
WAIST CIRCUMFERENCE	*	+ 4 cm=
HIP CIRCUMFERENCE	*	+ 4 cm=
INSIDE SEAM LENGTH	*	
OUTSIDE SEAM LENGTH	*	
KNEE CIRCUMFERENCE The desired finished leg circumference at knee	*	
CUFF CIRCUMFERENCE The desired finished leg circumference at cuff	*	

DO THE FOLLOWING CALCULATIONS:
 Round the measurements up to the nearest 0.5 cm.

	Body measurement + ease	Divided by 4	Divided by 20
Waist circumference	*		
Hip circumference	*	*	*
Knee circumference	*	*	
Cuff circumference	*	*	

DRAFTING THE PATTERNS

Draw a frame first . Follow the numbers in the picture.

1-2 = Start by drawing a vertical line that corresponds to the outside length of the pants. Draw a horizontal line from point 1 to the right. This is the waist line . Draw a horizontal line from point 2 to the right. This is the cuff line .

2-3 = Measure up from point 2 on the cuff line a distance equal to the inside length. Draw a horizontal line from point 3 to the right. This is the crotch line.

4 = Find the point midway between the crotch line and the cuff line (between points 2 and 3). Draw the horizontal knee line 6 cm above this point.

5 = Measure up from point 3 a distance equal to $\frac{1}{20} \times \text{hip circumference} + \text{ease}$. Draw the horizontal hip line from point 5 to the right.

6 = Measure from point 5 to the right a distance equal to $\frac{1}{4} \times \text{hip circumference} + \text{ease} + 1 \text{ cm}$.

7 = Measure from point 6 to the right a distance equal to $\frac{1}{20} \times \text{hip circumference} + \text{ease} + 1 \text{ cm}$.

8 = Find the point midway between points 5 and 7.

9, 10, 11, 12 = Draw vertical lines up and down from point 8. This is the center line of the pants' legs.

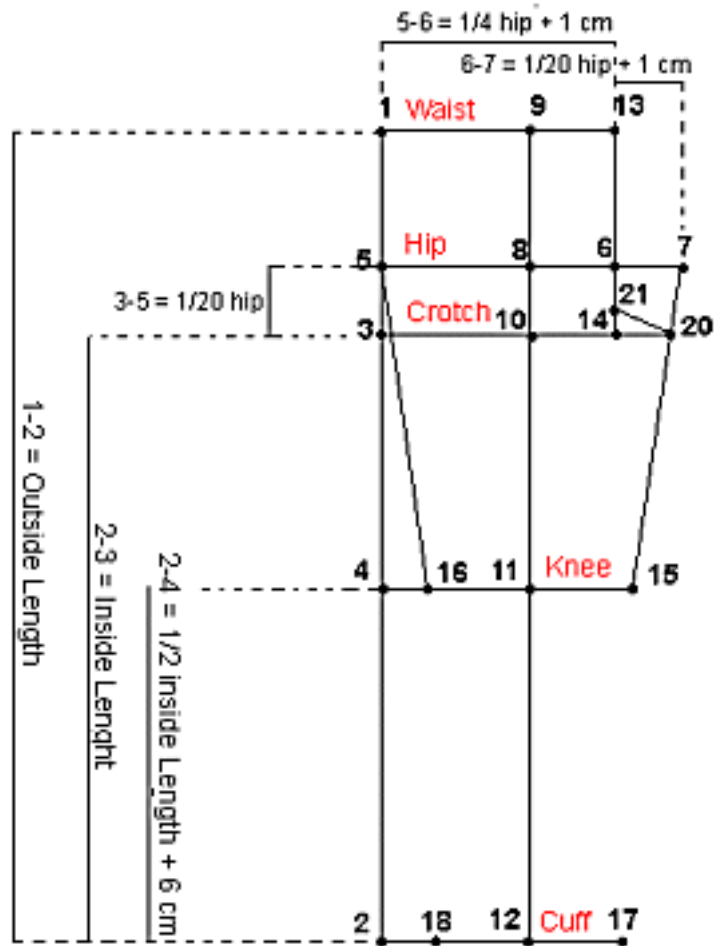
13, 14 = Draw vertical lines up and down from point 6.

15, 16 = Measure from point 11 to the right and to the left a distance equal to $\frac{1}{4} \times \text{knee circumference} - 1 \text{ cm}$. Draw a utility line from point 5 to point 16 . The line from point 15 to point 16 form the knee line.

17, 18 = Measure from point 12 to the right and to the left a distance equal to $\frac{1}{4} \times \text{cuff circumference} - 1 \text{ cm}$. The line from point 17 to 18 form the cuff line.

20 = draw a line from point 7 to point 15, and you get point 20.

21 = Measure from point 14 up a distance equal to $\frac{1}{2}$ of the distance between points 14 and 20



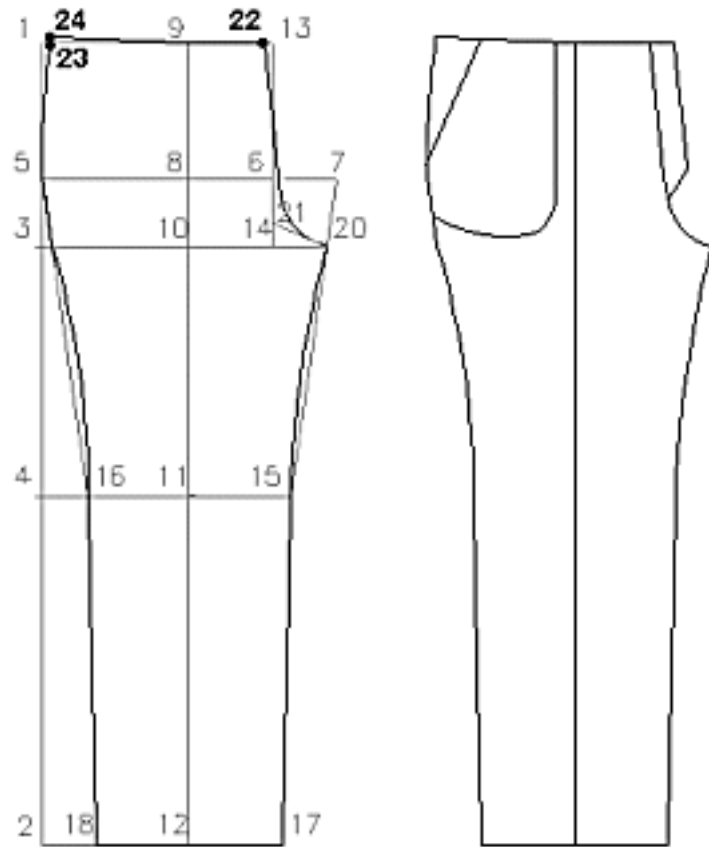
FRONT PIECE

Now you are ready to draw the front piece according to the picture. When drawing the legs, curve a bit inwards between the crotch and the knee.

22 = Measure 0.5 to 1 cm from point 13 to the left.

23 = Measure from point 22 to the left a distance equal to $1/4 * \text{waist circumference} + \text{ease}$

24 = Measure 1 cm up from point 23



BACK PIECE

Draw the back piece pattern in the same frame with the front piece.

25 = Measure from point 8 to the right a distance equal to $\frac{1}{20} \times \text{hip circumference} + \text{ease} + 1 \text{ cm}$ and up a distance equal to $\frac{1}{20} \times \text{hip circumference} + \text{ease} - 1 \text{ cm}$

26 = Measure from point 25 to the left a distance equal to $\frac{1}{4} \times \text{hip circumference} + \text{ease}$ and down a distance equal to $\frac{1}{20} \times \text{hip circumference} + \text{ease} - 1 \text{ cm}$. Line from point 25 to point 26 form the hip line of the back pant.

27 = Measure from point 8 to the right a distance equal to that between points 8 and 26

15 -> 28 = 2 cm

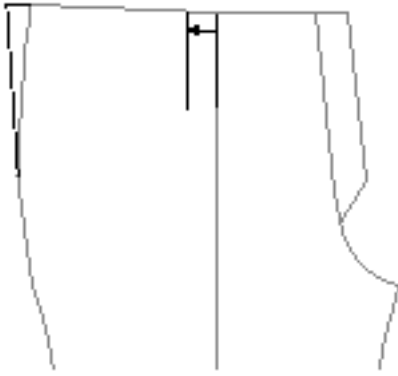
17 -> 29 = 2 cm

16 -> 30 = 2 cm

18 -> 31 = 2 cm

32 = Measure from point 9 to the right 3 cm and up a distance equal to $\frac{1}{20} \times \text{hip circumference} + \text{ease} - 1.5 \text{ cm}$

Now you are ready to draw the back piece according to the picture. When drawing the legs, curve a bit inwards between the crotch and the knee.



You notice that the patterns are drafted without waist darts. This suits for most men. If you want to add pleats to the front piece - they are commonly used - add the desired width of the pleats to the front piece waist measurement and draw the pleats to the pants front waist to the left from the center line.

Sewing instructions are also included on this web site. To view them ➤ [click here](#)

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