

Alex Marie DIY

Pattern Drafting - The Basic Trousers (Pants)

Things you will need

- 12 inch Straight Ruler or 2 x 18 inch (5 x 45 cm) clear grid ruler
- L-Square or Set Square
- Vary form curve / French curve
- Pencils, Eraser and Sharpener Carbon Paper
- Tracing wheel
- Scissors (Paper and Fabric)
- Sewing Machine
- 3 yards/ 2.5 metres of Muslin Fabric (Unbleached Calico/Plain Poplin)
- Roll of Paper (Brown, Dot, Swedish) 50 x 50 inch (125 x 125 cm)
- Metre rule or yard stick (optional)
- Awl (optional)
- Pattern notcher (optional)
- Masking tape/Sellotape (optional)
- Cardboard Paper (Cardstock)

Fraction/Decimal Conversion Table

INCHES		CENTIMETRES	
1/8	0.125	1/10	0.1
2/8 or 1/4	0.25	2/10 or 1/5	0.2
3/8	0.375	3/10	0.3
4/8 or 1/2	0.5	4/10 or 2/5	0.4
5/8	0.625	5/10 or 1/2	0.5
6/8 or 3/4	0.75	6/10 or 3/5	0.6
7/8	0.875	7/10	0.7
		8/10 or 4/5	0.8
		9/10	0.9

Basic Trouser Measurement and Calculation Sheet

Measurements

1.	Waist + $\frac{1}{2}$ inch (1.2cm) ease		$\frac{1}{4}$	
2.	Hip + 1 inch (2.5cm) ease		$\frac{1}{4}$	
3.	Hip Depth			
4.	Crotch Length			
5.	Crotch Depth			
6.	Outseam			
7.	Inseam			
8.	Waist to Knee			
9.	Knee			
10.	Upper thigh			
11.	Foot			

Calculations

Dart = $\frac{1}{4}$ Hip (with ease) - $\frac{1}{4}$ Waist (with ease) Divide answer into 3 parts. One-third will be the Dart	=
Crotch Extension = Crotch length - (Crotch depth x 2) Front Crotch Ex. = $\frac{1}{3}$ of Crotch Extension Back Crotch Ex. = $\frac{2}{3}$ of Crotch Extension	=

NB - When working out the dart and crotch calculations, round off your answers to the nearest eighth inch or millimeter. We want only figures that can be found on your ruler. For example, 0.875 on a ruler is the same as $\frac{7}{8}$ inches, so that is a usable figure, but 0.833 is hard to pinpoint on a ruler.

Therefore, to avoid odd fractions, for instance 2.5 inches can be divided in two ways.

(a) $2.5 = 1 + 1 + 0.5$; or

(b) $2.5 = 0.875 + 0.875 + 0.75$; or

(c) $2.5 = \frac{7}{8} + \frac{7}{8} + \frac{3}{4}$

SAMPLE

Basic Trouser Measurement and Calculation Sheet

Measurements

1.	Waist + $\frac{1}{2}$ inch (1.2cm) ease	$34.5 + 0.5 = 35$	$\frac{1}{4}$	8.75
2.	Hip + 1 inch (2.5cm) ease	$46 + 1 = 47$	$\frac{1}{4}$	11.75
3.	Hip Depth	9		
4.	Crotch Length	32		
5.	Crotch Depth	12		
6.	Outseam	44.5		
7.	Inseam	32.5		
8.	Waist to Knee	25.5		
9.	Knee	20		
10.	Upper thigh	27		
11.	Foot	15		

Calculations

Dart = $\frac{1}{4}$ Hip (with ease) - $\frac{1}{4}$ Waist (with ease) <i>Divide answer into 3 parts. One-third will be the Dart</i>	$11.75 - 8.75 = 3$ Dart = 1
Crotch Extension = Crotch length - (Crotch depth $\times$ 2) Front Crotch Ex. = $\frac{1}{3}$ of Crotch Extension Back Crotch Ex. = $\frac{2}{3}$ of Crotch Extension	$32 - (12 \times 2) = 8$ $= 2.625$ $= 5.25$

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