

How to draft a Quarter Circle Skirt

Tutorial by Hannah-Rose Smith

A Full Length Quarter Circle Skirt usually uses 1.5m x 1.5m fabric.

Required measurements:

The circumference of your waist measured where the waistband will sit.

The length of the skirt, measured from the waist towards the floor.

Seam Allowances:

Centre Back seam allowance for a zip, I recommend 1.5cm

Waist seam allowance which will join to a Waistband, I recommend 1cm

If you are going to do an Overlocked Rolled Hem then make the hem allowance 1cm.

Otherwise, I would recommend a hem allowance of 1.2cm for a sewn Narrow Hem

Learn how to sew a Narrow Hem in the accompanying blog post.

Calculations:

Before calculating the radius, add 2 x the Centre Back seam allowance to your waist measurement.

Example:

Waist = 58cm

Centre Back seam allowance = 1.5cm

$58 + (2 \times 1.5) = 61\text{cm}$ Waist measurement

Calculations for the radius:

Quarter Circle Skirt

Radius = $(4 \times \text{waist}) \div (2\pi) - \text{Waist seam allowance}$

Example:

For my Quarter Circle Skirt my calculations are

$(4 \times 61\text{cm}) \div (2\pi) - 1\text{cm} = 37.83\text{cm}$ radius

Calculations for the fabric length:

Radius + Skirt length + Hem Allowance

Example for my skirt:

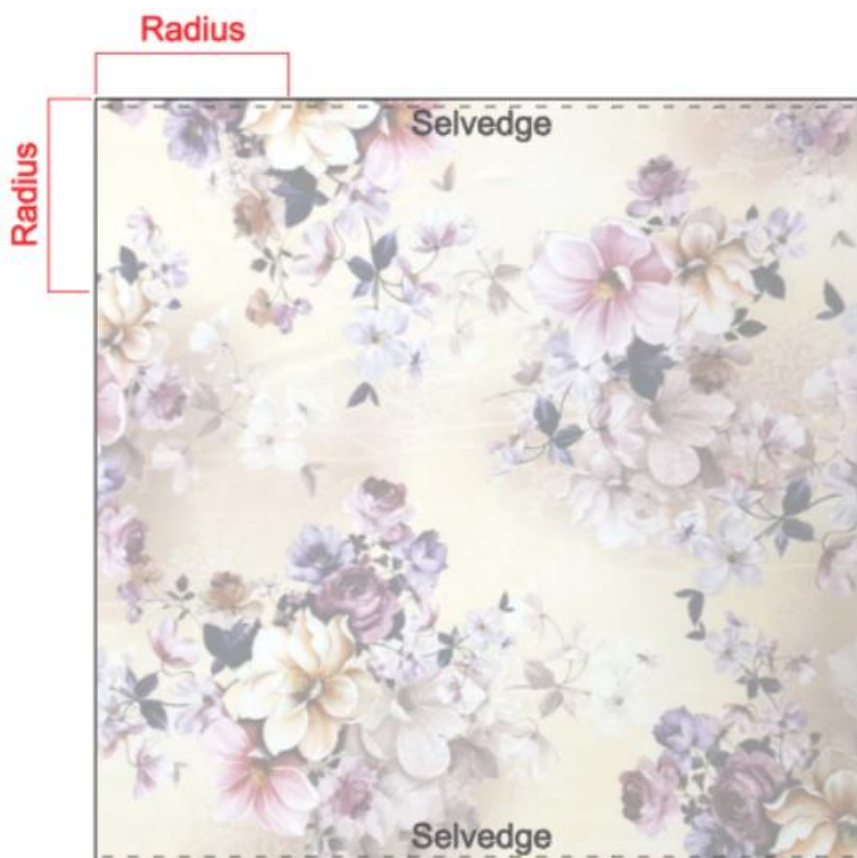
$37.83\text{cm} + 110\text{cm} + 1.2 = 149.03\text{cm}$

You may need to shorten the length of the skirt if the results of this calculation exceeds 150cm.

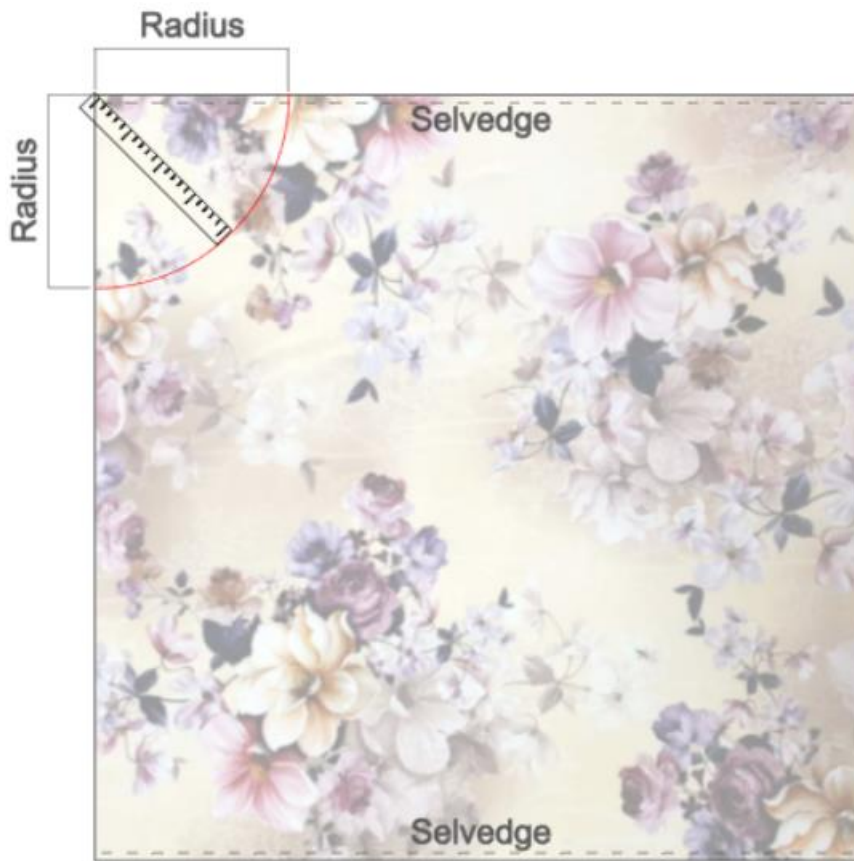
How to use these calculations:



1. Lay your fabric flat on the floor with the wrong-side up.



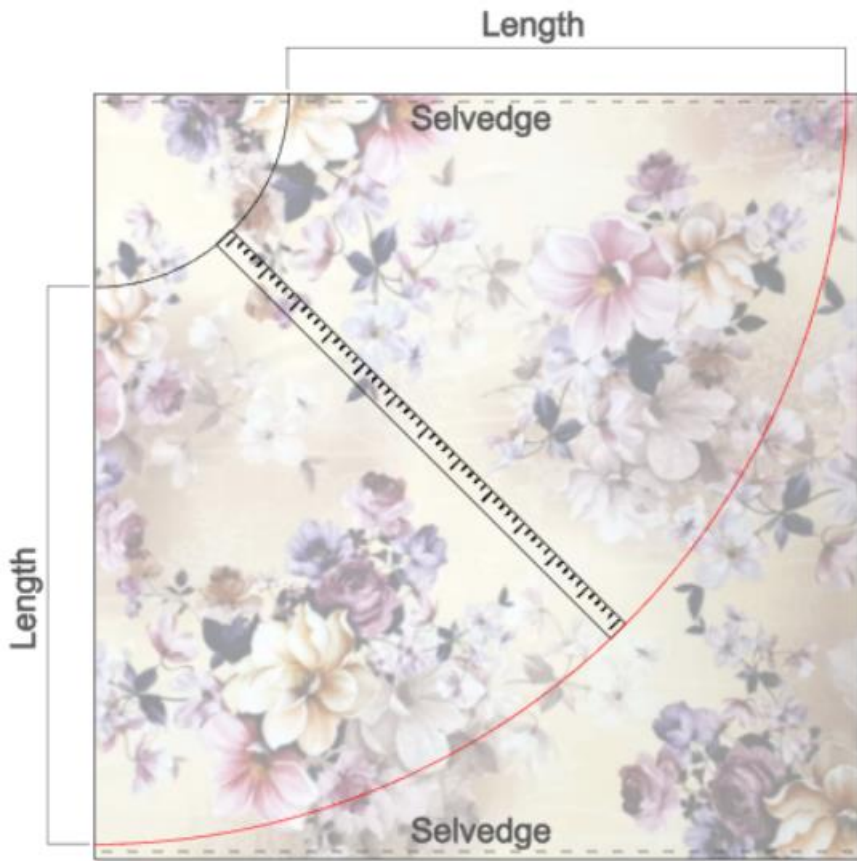
2. Measure from the one corner along both edges, the length of the Radius.



3. Measure out from the corner, the length of the Radius and draw a quarter circle joining the edges
This curve will be the Waist.



4. Measure down from the curve along both edges, the Length of the Skirt + the Hem Allowance.



5. Measure out from the curve, the same measurement and draw a quarter circle joining the edges. This curve will be the Skirt Hem.



6. Cut along the curved lines and you'll have the Skirt piece of the Quarter Circle Skirt.



This is what it will look like once cut out.

The selvedge and crossgrain edge will be the Centre Back seam once joined.