

Half Circle Skirt

Radius of the half circle waist:

Your waist measurement divided by π .

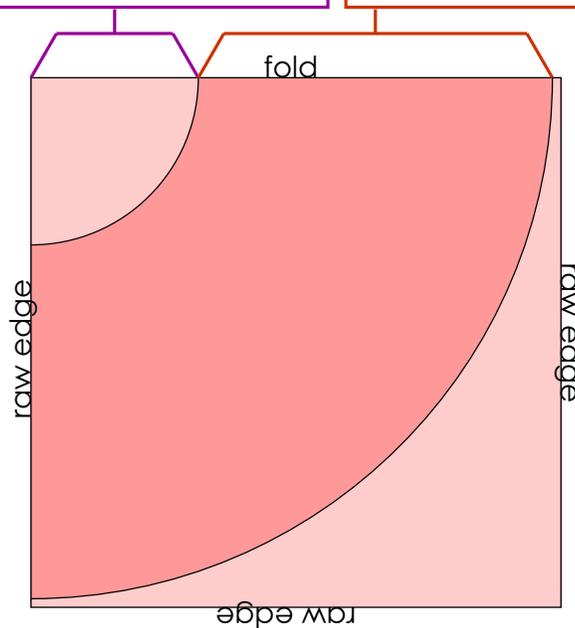
In a calculator with an example measurement:

$$28'' \div \pi = 8.9$$

Round up to the nearest quarter inch, so round to 9 inches.

Length of skirt:

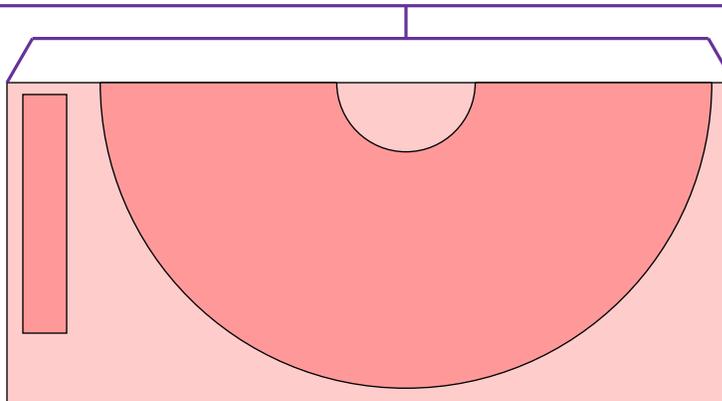
Pick your desired length (ex. 24"). The width of the fabric matters here. Fabric bolts generally come in 45, 54, 60, up to 108 inches. Add your waist radius to your skirt length plus 1 inch for seam allowance. Example: $9'' + 24'' + 1'' = 34''$ total width. A 45" bolt would work for this skirt.



Then for total yardage take your total width and multiply it by 2.

$$34'' \times 2 = 68$$

A yard is 36", so you will need 2 yards of fabric. The little bit extra will be used for the waistband.



Full Circle Skirt

Radius of the full circle waist:

Your waist measurement divided by 2π .

In a calculator with an example measurement:

$$28'' \div (2\pi) = 4.45$$

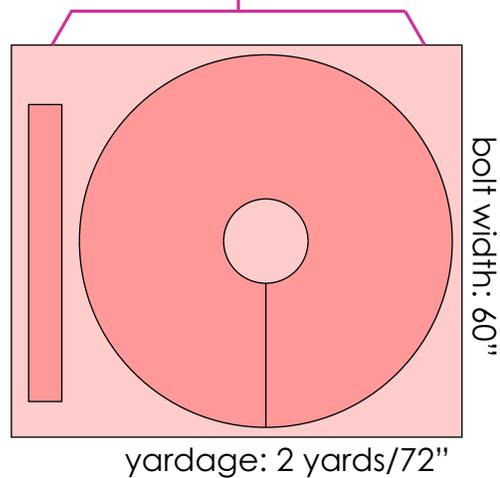
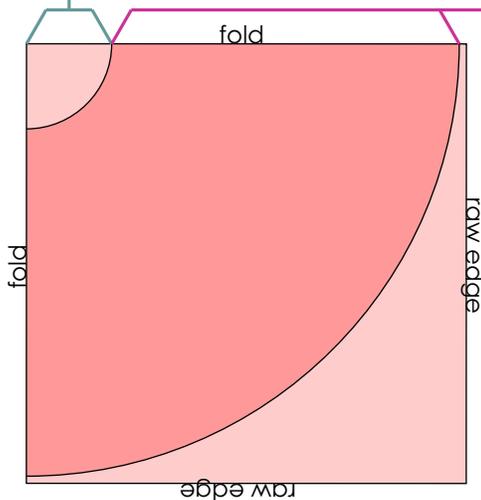
Round up to the nearest quarter inch, so round to 4.5 inches.

Length of skirt:

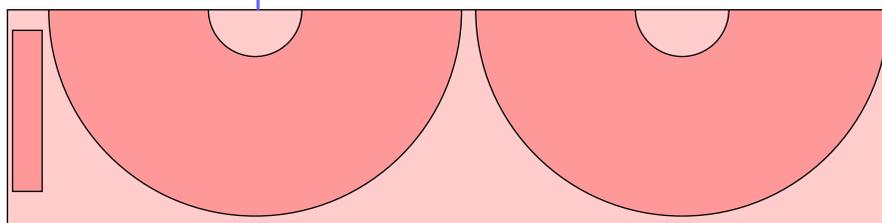
Pick your desired length (ex. 24"). The width of the fabric matters here, especially because it is a full circle. Fabric bolts generally come in 45, 54, 60, up to 108 inches.

Add your waist radius to your skirt length plus 1 inch for seam allowance. Example: $4.5'' + 24'' + 1'' = 29.5''$. Now multiply $29.5''$ by 2; which is $59''$.

You will need to buy fabric that is 60" wide and 2 yards of it, because 1 yard is 36 inches. The extra fabric will be used for your waistband.



If you can't find fabric wide enough or you want a maxi length skirt, then you may need to cut to half circles and sew them together. In this case, you still need to use the full circle diameter. Also, this will move the zipper to the hip instead of the back.



Materials & Waistband

Materials:

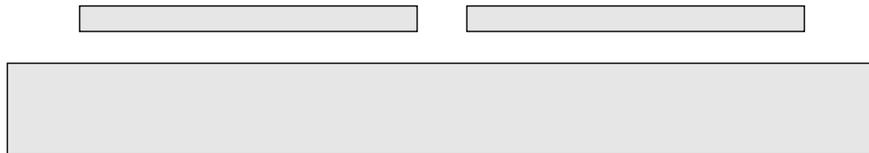
- main fabric
- lining fabric
- 9-16" invisible zipper
- matching thread
- contrasting thread
- interfacing
- waistband closure

Tools:

- tape measure
- chalk/marketing pen
- scissors
- iron/ironing board
- pins
- hand sewing needle
- sewing machine
- zipper foot
- dress form/hanger

Interfacing

Cut 1 piece of interfacing the same size as your waistband. Cut 2 pieces of interfacing about 1 inch wide and 2 inches longer than your zipper length. The two thin pieces of interfacing are used to support your zipper installation.



Waistband

The waistband is a long rectangle. For a 1.5" finished waistband width, cut a 4" width of fabric. The length will be your waist measurement plus 4". Example: 28 inch waist + 4" = 32" length. Your rectangle would be 32 by 4 inches.

