

To calculate the warp length, we begin by calculating the length of the weaving you want to make. Here, I'm using the tea towel measurements.

FABRIC (3 TOWELS, 29½ IN / 75 CM LONG INCLUDING HEM)	88½ IN / 225 CM
SAMPLE	7¾ IN / 20 CM
TOTAL WEAVING LENGTH	96½ IN / 245 CM

Then we can use that information to calculate the warp length:

WEAVING LENGTH (FROM TABLE ABOVE)	96½ IN / 245 CM
5% TAKE-UP	4¾ IN / 12 CM
LOOM WASTE	39¼ IN / 100 CM
TOTAL WARP LENGTH	140½ IN / 357 CM

We've calculated the warp length as 140½ in / 357 cm, which we can round to 142 in / 360 cm. These measurements can also be written as 3.9 yd / 3.6 m.

If you'd like to add fringe or other finishing details that require extra warp length—for example, a braided edge for a rug—don't forget to add that as a row in the warp length table above.

Now that we know that the warp is 3.6 m long, we can calculate how much yarn we will need, which we will measure in kilograms. If the warp is striped, like in our tea towel project, you calculate each color separately. Refer to the warp order on page 34 to see how many total ends of each color we need. We will use metric measurements here.

Number of ends x warp length in meters = total meters of yarn you need

$300 \text{ ENDS ORANGE} \times 3.6 \text{ M} = 1080 \text{ M ORANGE}$ $240 \text{ ENDS ECRU} \times 3.6 \text{ M} = 864 \text{ M ECRU}$
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We can use the number of meters to figure out how many kilograms of each yarn we need:

$\frac{\text{NUMBER OF METERS NEEDED FOR THE WARP}}{\text{THE YARN'S METERAGE/KG}} = \text{NUMBER OF KG NEEDED FOR THE WARP}$
