

### Formula for figuring your warp needs

Project length finished \_\_\_\_\_  
+ fringe + \_\_\_\_\_  
+take-up (10% average) + \_\_\_\_\_  
factors to think about  
+Shrinkage (10% average) + \_\_\_\_\_  
type of yarns  
+Loom waste + \_\_\_\_\_  
(floor 36" or table 27" loom)  
= \_\_\_\_\_ **Total warp length**  
÷ 36 inches ÷ 36 \_\_\_\_\_  
= \_\_\_\_\_ **Total warp yards**

Finished width \_\_\_\_\_  
+ draw-in (1-2" average) + \_\_\_\_\_  
+ shrinkage (10% average) + \_\_\_\_\_  
= \_\_\_\_\_ **Width in reed**  
x warp sett for yarn x \_\_\_\_\_  
(e.p.i. or ends per inch)  
= \_\_\_\_\_ **Total warp ends needed**

**Total warp length** \_\_\_\_\_  
x **Total warp ends needed** x \_\_\_\_\_  
= \_\_\_\_\_ **Total warp thread needed in inches**  
÷ 36 inches ÷ 36 \_\_\_\_\_  
= \_\_\_\_\_ **Total yards needed for warp**

### Weft Formula

Width in reed \_\_\_\_\_  
x p.p.i or picks per inch \_\_\_\_\_ p.p.i. 20 balance weave  
= \_\_\_\_\_ **weft needed to weave 1" of fabric**

Project length finished \_\_\_\_\_  
+take-up (10% average) + \_\_\_\_\_  
+Shrinkage (10% average) + \_\_\_\_\_  
= \_\_\_\_\_ **Total woven length**  
x **Weft needed to weave 1"** x \_\_\_\_\_  
= \_\_\_\_\_  
÷ 36 inches ÷ 36 \_\_\_\_\_  
= \_\_\_\_\_ **Total yards needed for weft**

### Formula for figuring your warp needs

Project length finished 40"  
+ fringe + 40" 10"each  
+take-up (10% average) + 8"  
factors to think about  
+Shrinkage (10% average) + 8"  
type of yarns  
+Loom waste + 27" Table loom  
(floor 36" or table 27" loom)  
= 123" **Total warp length**  
÷ 36 inches ÷ 36  
= 3.4 Total warp yards

Finished width 14"  
+ draw-in (1-2"average) + 2"  
+ shrinkage (10% average) + 1.6"  
= 17.6" **Width in reed**  
x warp sett for yarn x 20 epi 20  
(e.p.i. or ends per inch)  
= 352 **Total warp ends needed**

**Total warp length** 123"  
x **Total warp ends needed** x 352  
= 43,296" Total warp thread needed in inches  
÷ 36 inches ÷ 36  
= 1,203 **Total yards needed for warp**

### Weft Formula

**Width in reed** 17.5"  
x p.p.i or picks per inch 20 p.p.i. 20 balance weave  
= 350" **Weft needed to weave 1"** of fabric

Project length finished 40"  
+take-up (10% average) + 8"  
+Shrinkage (10% average) + 8"  
= 56" Total woven length  
**x Weft needed to weave 1"** x 350"  
= 1,960"  
÷ 36 inches ÷ 36  
= 545 **Total yards needed for weft**

