

Calculating Warp

..... Woven length. Finished project length including hems **(B)**
 + OPTIONAL: Fringe. To calculate:
 inches of fringe x 2 (____) x number of pieces to be woven (____) =
 total fringe _____ (put this figure in box B)
 + 10% Take-up (of total *woven* length) ($A * .10 = \underline{\quad}$)
 + 10% Shrinkage (of woven length + fringe) ($A + B * .10 = \underline{\quad}$)
 + Loom waste (unique for different looms)
 = Total Length ($A + B + C + D + E = F$) **(1)**

..... Finished project width
 + Draw in (1 to 2 inches avg.)
 + Shrinkage (10% width)
 = Width on loom ($G + H + I = J$) **(A)**
 x warp sett (e.p.i.)
 = warp ends needed ($J * K = L$)
 x total length in inches (from **(1)** above)
 = total warp needed in inches ($L * M = N$)
 / 36
 = yards of warp needed ($N \div 36 \text{ inches} = O$)

Calculating Weft

NOTE: Large letters refer to figures on warp sheet.

	ALength of one weft shot in inches. Enter A from warp calculations.
x	BShots per inch
=	CInches needed to weave one inch of fabric ($A * B = C$)
x	DInches to be woven ($\textcircled{B} + 1.1 = D$)
=	EInches of weft needed to weave entire project ($C * D = E$)
/	36	
=	FTotal yards of weft needed ($E \div 36 \text{ inches} = F$)

If using multiple colors in warp or weft, use end/shot count to determine percentages of each color and multiply by total yards (in warp or weft or combination thereof) to determine yards per color.

Example:

A scarf has 90 ends and uses a total of 480 yards in the warp.
45 warp ends are blue, 15 each are yellow, green and red.

45 divided by 90 = 50%
50% of 480 = 240 yards

15/90 = roughly 17%
17% of 480 = roughly 82 yards (each of yellow, green and red)