Units of measurement on the model were in Inches and are the units on the Diagram below. However, they may be used as Ratios in order to determine measurements for other tents. For example, if the size of Measurement $x$ is known it will be possible to work out all other values based on the diagram below.

## Top down view of tent





[^0]
## Following Measurements are not Ratios

## $\mathrm{I}=$ Tent ridge Pole $=\mathrm{G}+20$ inches

$J=$ tent pole cover length 10 inches
$\mathrm{K}=$ tent pole cover width 8 inches
$L=$ tent pole sleeve 10 inches

## The Real Tent

Therefore, for a tent that is 8 feet high the calculations and values would be as follows (to 3 decimal places)

| Ratio Calculations | Actual measurements in decimal feet before seam allowance |
| :---: | :---: |
| $8 / 3.5=2.286$ | $\begin{aligned} & \mathrm{A}=9.429 \mathrm{Df} \\ & \mathrm{~B}=8 \mathrm{Df} \end{aligned}$ |
| $2.286 \times 41 / 8=A$ | $C=9.143 \mathrm{Df}+\mathrm{K}=9.809 \mathrm{Df}$ |
| $2.286 \times 3.5=B$ | $\mathrm{D}=4.571 \mathrm{Df}$ |
| $2.286 \times 4=C$ | $\mathrm{E}=2.286 \mathrm{Df}$ |
| $2.286 \times 2=D$ | $\mathrm{F}=9.143 \mathrm{Df}$ |
| $2.286 \mathrm{X}=1 \mathrm{E}$ | $\mathrm{G}=9.071 \mathrm{Df}$ |
| $2.286 \times 4=F$ | $\mathrm{H}=$ As required for desired tent length |
| 2.286 X ? = G | $\mathrm{I}=$ Tent ridge Pole = G + 1.666 Df |
|  | $\mathrm{J}=$ tent pole cover length 0.833 Df |
|  | $\mathrm{K}=$ tent pole cover width 0.666 Df |
|  | $\mathrm{L}=$ tent pole sleeve 0.833 Df |
| In Fractional Feet and Inches | Actual measurements in Fractional Feet after seam allowance and rounded for |
| A = 9 foot, 5 5/32 inches | ease of measurement |
| $B=8$ foot | - Add 2 inches to measurements A-F for seam allowance |
| $C=9$ foot, $123 / 32$ inches $+K=9$ foot, $923 / 32$ inches |  |

D = 4 foot, 6 27/32 Inches
E = 2 foot, 3 7/16 Inches
F = 9 foot, $123 / 32$ inches
$\mathrm{G}=9$ foot $027 / 32$ inches
$\mathrm{H}=$ As required for desired tent length
$\mathrm{I}=$ Tent ridge Pole $=\mathrm{G}+20$ inches
$\mathrm{J}=$ tent pole cover length 10 inches
$\mathrm{K}=$ tent pole cover width 8 inches
$\mathrm{L}=$ tent pole sleeve 10 inches

- Add 1 inch to measurements J +k for seam allowance
$A=9$ foot, $75 / 32$ inches
$B=8$ foot 2 inches
C = 9 foot, $37 / 8$ inches $+K=9$ foot, $117 / 8$ inches
$D=4$ foot, $87 / 8$ Inches
$\mathrm{E}=2$ foot, 5 1/2 Inches
F = 9 foot, $17 / 8$ inches
$\mathrm{G}=9$ foot , $27 / 8$ Inches
$H=A s$ required for desired tent length
$\mathrm{I}=$ Tent ridge Pole $=\mathrm{G}+20$ inches
$\mathrm{J}=$ tent pole cover length 11 inches
$\mathrm{K}=$ tent pole cover width 9 inches
$\mathrm{L}=$ tent pole sleeve 10 inches
$1 \mathrm{ft}=30.48 \mathrm{~cm}$


## Instructions for Sewing Tent

## Laying Out Of Fabric Diagram




1. Sew double row of stitching
2. Fold over so that all edges of fabric are contained within seam and sew another double row of stitching
3. 


2.

1. Fold and sew.
2. Fold over so that all edges of fabric are contained within seam and sew double row of stitching.



[^0]:    A = Internal Floor width 4 1/8
    $B=$ Internal Height 3.5
    $C=$ Face length 4
    $D=$ Bell Length 2
    $E=$ Bell triangle base 1
    $F=$ Bell triangle side length 4
    G = Height of Bell Triangle
    $H=$ Side length as needed

