Scale drawing calculation

Drawing : real = 1 : 100

Real length to drawing length

12 m -> 12 cm

1. Convert the input length to millimetres.

    12 x 1000 = 12000 mm

2. Multiply by the length scale factor.

    Factor = 0.01; scaled length = 120 mm

3. Divide by the number of millimetres in one output unit.

    120 / 10 = 12 cm

Length, area and volume use different powers of the scale.

Real to drawing length factor: 0.01

Real to drawing area factor: 0.0001

Real to drawing volume factor: 1.000000e-6

Only apply these factors to corresponding, similar shapes.

Keep units consistent. Rounded screen values are for display.

Print at Actual size / 100%. Check the 100 mm bar before measuring.

100 mm

zumola.com / CC BY 4.0