

Interpolation and Extrapolation - homework exercise

1. a) When the volume of the brass is 0.0036 L , I estimate its mass to be 30.8 grams .
b) When the mass of brass is 50.0 g , I estimate its volume to be 0.0059 L
c) When the volume of the brass is 0.0065 L , I estimate its mass to be 61.2 g
d) When the mass of brass is 52.5 g , I estimate its volume to be 0.00625 L

2. a) When the spring is extended 135 mm , I estimate the mass required to be 270 g .
b) When a mass of 220.0 g is applied, I estimate the extension to be 110 mm .
c) When the spring is extended 265 mm , I estimate the mass required to be 530 g .
d) When a mass of 535.0 g is applied, I estimate the extension to be 267.5 mm .