Task:

If a 130-lb patient is prescribed 38mg of a cholesterol-lowering drug daily,
what dosageis the patient receiving in mg/kg of his body weight?

Solution:

1 *Lb* = 0,4536 kg
We have to convert lb to kg
The conversion factor is
f = 0.4536
The weight of the patient is
m(kg) = m(lb) · f = 130 · 0.4536 = 58.97 kg

The dosage is
38 mg for 58.97 kg
x mg   for 1 kg

The dosage is = 38 / 58.97 = 0.644 mg/kg

Answer: The dosage is 0.644 mg/kg