

Question #33758

Adjust the density formula and solve the problems below:

Adjust the formula for the unknown $m =$

The density of silver is 110.49 g/cm^3 . If a sample of pure silver has a volume of 112.993 cm^3 , what would the mass?

Solution:

According to density formula, $d = \frac{m}{V}$, so $m = d \cdot V = 112.993 * 110.49 = 12484.597 \text{ g} = 12.484 \text{ kg}$

Answer: The mass would be 12.484 kg.