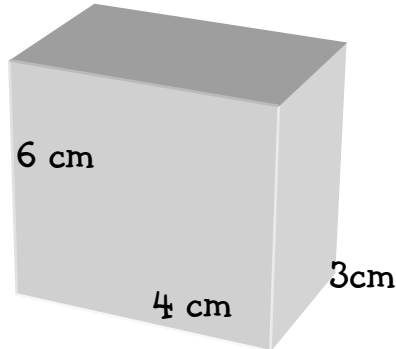


Density Review Answer Sheet

You have to memorize the formulas! **Density = Mass \div Volume**
Volume = Length X Width X Height

1. If the box below has a mass of 360g the density would be equal to **5 g/cm³**



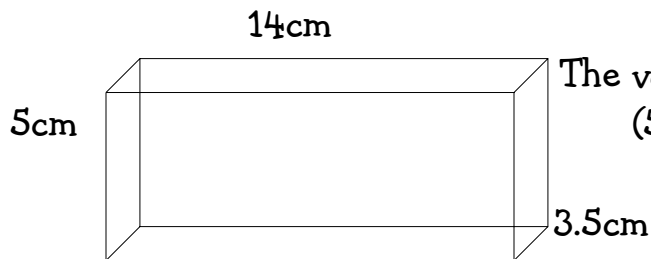
That is because its volume is 72 cm³

$$(6 \text{ cm} \times 4 \text{ cm} \times 3 \text{ cm})$$

$$\text{Density} = 360\text{g} \div 72 \text{ cm}^3 = \mathbf{5 \text{ g/cm}^3}$$



- 2.



The volume of this box is 245 cm³
(5cm x 14 cm x 3.5 cm)

$$\text{Density} = 97\text{g (Mass)} \div 245 = .395918367$$

Round this answer to the tenths place value!!

This answer as is would be incorrect. Just concern yourself with the first two digits after the decimal - .39

The 9 is larger than 5 so the 3 would become larger.

The final answer would be **.4 g/cm³**

This box would **float** because the density of water is 1
.4 is less than 1 so it would float

