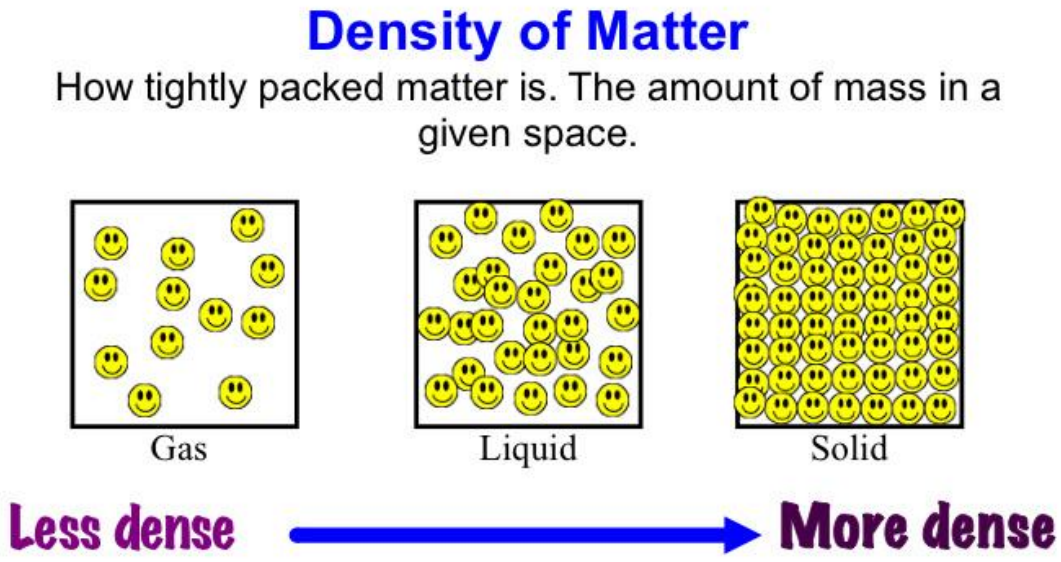
What is density?



(Image from https://sites.google.com/a/linguisticocassara.it/flipped-physics/density)

TASK

You want to find a general formula which describes the density of any object.
Consider an object with:

V _____
m _____
d density

Complete the sentences.

By definition, _____ is the ratio between the mass and _____, in formulae:

$$d = \frac{\quad}{V} \ .$$

Mass has the unit of …….or [g]; Volume has the unit of ….. or [cm] or [L] so density unit is ……or $[^{g}/_{cm}]$

Inverting the previous formula, we get that

$$\boldsymbol{m} =$$

$$\boldsymbol{V} =$$