

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}} \Rightarrow D = \frac{M}{V} \Rightarrow \text{Density} = \text{Mass} \div \text{Volume}$$

Mass, Volume and Density



1. You have a rock with a volume of 12 cm³ and a mass of 84 g. What is its density?

$$D = \frac{84 \text{ g}}{12 \text{ cm}^3} \quad \text{Its density is g/cm}^3$$

2. You have a different rock with a volume of 24 cm³ and a mass of 192 g. What is its density?

$$D = \frac{\text{g}}{\text{cm}^3} \quad \text{Its density is g/cm}^3$$



3. In question 1 and 2, which rock is more dense? Drag and drop.

FIRST

SECOND

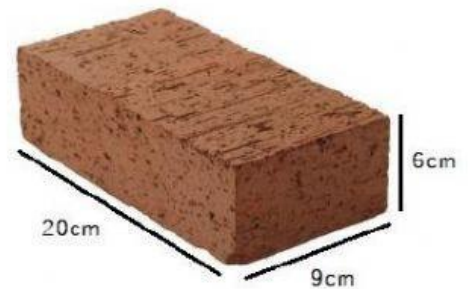
The rock is more dense than the rock.

4. What is the density of a rectangular brick with a weight of 2160 g ?

$$\text{Volume} = \text{.....} \times \text{.....} \times \text{.....} = \text{..... cm}^3$$

$$D = \frac{\text{g}}{\text{cm}^3}$$

$$\text{Its density is g/cm}^3$$



5. A block of marble measures 10 cm X 10 cm X 10 cm. It weighs 4000 g. What is its density ?

$$\text{Mass: g}$$

$$\text{Volume:} \times \text{.....} \times \text{.....} = \text{..... cm}^3$$

$$D = \frac{\text{g}}{\text{cm}^3}$$

$$\text{Its density is g/cm}^3$$