

$$\text{density} = \frac{\text{mass}}{\text{volume}} \quad \rho = \frac{m}{V}$$



$$\rho = \frac{24.1\text{g}}{15.9\text{cm} \times 20.7\text{cm} \times 1.9\text{cm}}$$

$$\rho = 3.85 \times 10^{-2} \frac{\text{g}}{\text{cm}^3}$$

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

$$\rho = \frac{m}{V}$$



$$\rho = \frac{33.4\text{g}}{(20 - 12)\text{cm}^3}$$

$$\rho = 4.2 \frac{\text{g}}{\text{cm}^3}$$

Holy rock

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

$$\rho = \frac{m}{V}$$



$$\rho = \frac{23.8\text{g}}{(18.3-4.0)\text{cm}^3}$$

$$\rho = \frac{1.7\text{g}}{\text{cm}^3}$$

Dark holy rock

$$\text{density} = \frac{\text{mass}}{\text{volume}} \quad \rho = \frac{m}{V}$$

$$\rho = \frac{0.4\text{g}}{29.8\text{cm} \times 3.05\text{cm} \times 0.56 \times 0.1\text{cm} / 32}$$

$$\rho = 2.5 \frac{\text{g}}{\text{cm}^3}$$

Aluminium foil



$$\text{density} = \frac{\text{mass}}{\text{volume}} \quad \rho = \frac{m}{V}$$



$$\rho = \frac{94.0\text{g}}{\pi \times (2.45^2 - 2.00^2)\text{cm}^2 \times 6.1\text{cm}}$$

$$\rho = 2.45 \frac{\text{g}}{\text{cm}^3}$$

Hollow aluminium cylinder

$$\text{density} = \frac{\text{mass}}{\text{volume}} \quad \rho = \frac{m}{V}$$



$$\rho = \frac{3.5\text{g}}{\frac{4}{3}\pi(9.53 \times 0.5 \times 0.1\text{cm})^3}$$

$$\rho = 7.7 \frac{\text{g}}{\text{cm}^3}$$

Metal steel? sphere

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

$$\rho = \frac{m}{V}$$



Titanium rod

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

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