1 Density =
$$\frac{\text{mass}}{\text{volume}}$$

The mass is divided by 2 and the volume is multiplied by 4

What happens to the density?

Circle your answer.

[1 mark]





2 A solid has volume 300 cm³ and density 2 g/cm³
Circle the mass of the solid.

[1 mark]

150 g 298 g

302 g



mass = 300 × 2 = 600

3 A solid statue has volume 512 cm³

The statue has mass 3.6 kilograms.

density of iron = 7.87 grams per cubic centimetre

Is the statue made of iron?

You **must** show your working.

[3 marks]

mass of statue =
$$3.6 \times 1000 = 3600 g$$

density of statue =
$$\frac{3600 \, \text{g}}{512 \, \text{cm}^3}$$