1. A marble has a mass of 5 grams and a volume of 2 cm\(^3\).

Work out the density of the marble, in g/cm\(^3\).

2. A block of wood has a density of 0.75 g/cm\(^3\) and a volume of 120 cm\(^3\).

Work out the mass of the block of wood, in grams.

3. A brick has a density of 500 kg/m\(^3\) and a mass of 10.5 kilograms.

Work out the volume of the brick, in m\(^3\).

4. A metal rod has a mass of 150 grams and a volume of 25 m\(^3\).

Work out the density of the rod, in g/m\(^3\).
5. A gold bar has a density of 19 g/cm$^3$ and a mass of 9,500 grams.

Work out the volume of the gold bar, in cm$^3$.

6. A piece of aluminium has a density of 2.6 g/cm$^3$ and a volume of 15 cm$^3$.

Work out the mass of the aluminium, in grams.

7. A cricket ball has a density of 0.8 g/cm$^3$ and a mass of 165 grams.

Work out the volume of the cricket ball, in cm$^3$.

8. A piece of carbon has a density of 2.2 g/cm$^3$ and a volume of 70 cm$^3$.

Work out the mass of the piece of carbon, in grams.

9. A cube has side length 8 cm and has a mass of 960 grams.

Work out the density of the cube, in g/cm$^3$. 

10. Pictured below is a block of wood.

The block has a mass of 288 grams.

Work out the density of the block of wood, in g/cm$^3$.

11. Pictured below is a metal sheet.

The density of the metal sheet is 5.5 g/cm$^3$.

Work out the mass of the metal sheet, in grams.
12.
Pictured below are two blocks – Block A and Block B.

Block A is made from tin and Block B is made from tungsten.
Tin has a density of 7.3 g/cm$^3$.
Tungsten has a density of 19.3 g/cm$^3$.

Which block has the largest mass – Block A or Block B?

13.
Pictured below is a block of wood.

The block of wood has a mass of 980 grams.

Work out the density of the block of wood, to 2 decimal places.
14. Pictured below is a metal cylinder.

![Cylinder Diagram]

The cylinder has a mass of 21,000 kilograms.

Work out the density of the cylinder, in kg/m$^3$.
Give your answer to 4 significant figures.

15. Pictured below is a block of wood.

![Wood Diagram]

The density of the wood is 540 kg/m$^3$.
The block has a mass of 28,000 kg.

Find x, to 2 significant figures.
16. Pictured below is a cube.

The cube has a mass of 6.5 kilograms and a density of 15.4 g/cm$^3$.

Find the side length of the cube, to 2 significant figures.

17. Pictured below is a triangular prism.

The triangular prism has a mass of 720 kilograms and a density of 1.2 g/cm$^3$.

Find x, to 2 significant figures.
18. Pictured below is a cylinder.

Nicola is trying to work out whether the cylinder is made of silicon or carbon. The density of silicon is 2.33 g/cm$^3$ and the density of carbon is 2.26 g/cm$^3$. The cylinder has a mass of 112 kilograms.

Which material do you think the cylinder is made of?

19. Pictured below are two solids – Solid A and Solid B.

Solid A has a density of 1.7 g/cm$^3$.
Solid B has a density of 2,750 kg/m$^3$.

Which solid has the largest mass – Solid A or Solid B?
20.
Material A has a density of 2.64 g/cm$^3$.
Material B has a density of 1.91 g/cm$^3$.

2 kilograms of Material A and 950 grams of Material B form Material C.

Work out the density of Material C, to 2 decimal places.

21.
Liquid A has a density of 1.08 g/cm$^3$.
Liquid B has a density of x g/cm$^3$.

750 cm$^3$ of Liquid A is mixed with 990 cm$^3$ of Liquid B to form Liquid C.
The mass of Liquid C is 1.7 kilograms.

Find the density of Liquid B, to 2 decimal places.