1) Jane runs 200 metres in 21.4 seconds.

   Work out Jane's average speed in metres per second.
   Give your answer correct to 1 decimal place.

2) A car travels at a steady speed and takes five hours to travel
   310 miles.

   Work out the average speed of the car in miles per hour.

3) A plane flies 1440 miles at a speed of 240 mph.

   How long does it take?

4) A marathon runner runs at 7.6 mph for three and a half hours.

   How many miles has he run?

5) A car takes 15 minutes to travel 24 miles.

   Find its speed in **mph**.

6) A cyclist takes 10 minutes to travel 2.4 miles.

   Calculate the average speed in mph.

7) An ice hockey puck has a volume of 113 cm^3.

   It is made out of rubber with a density of 1.5 grams per cm^3.

   Work out the mass of the ice hockey puck.

8) An apple has a mass of 160 g and a volume of 100 cm^3.

   Find its density in g/cm^3.

9) A steel ball has a volume of 1500 cm^3.

   The density of the ball is 95 g/cm^3.

   Find the mass of the ball **in kg**.

10) The mass of a bar of chocolate is 1800 g.
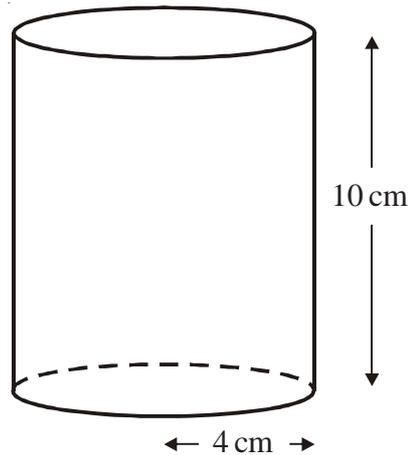
    The density of the chocolate is 9 g/cm^3.

    What is the volume of the bar of chocolate?

1) Tony went on holiday to Miami.
He travelled from London by plane.

The distance from London to Miami is 7120 km.
The plane journey took 8 hours.

Calculate the average speed of the plane.

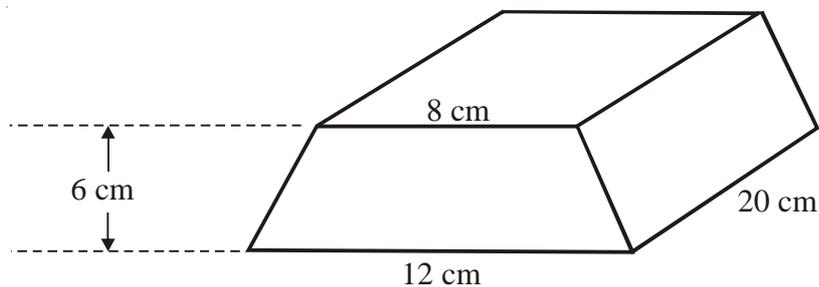2) A solid cylinder has a radius of 4 cm and a height of 10 cm.

10 cm

← 4 cm →

a) Work out the volume of the cylinder.
Give your answer correct to 3 significant figures.

The cylinder is made of wood.
The density of the wood is 0.7 grams per cm^3

b) Work out the mass of the cylinder.
Give your answer correct to 3 significant figures.

3)

8 cm

6 cm

20 cm

12 cm

The diagram shows a solid prism made from metal.
The cross-section of the prism is a trapezium.

The parallel sides of the trapezium are 8 cm and 12 cm.
The height of the trapezium is 6 cm.
The length of the prism is 20 cm.

The density of the metal is 4 g/cm^3.

Calculate the mass of the prism.
Give your answer in kilograms.