Compound Measures Revision

(a)

Convert $725\ cm$ into metres.

$7.25\ m$

(b)

Convert $1.3\ litres$ into ml.

$1300\ ml$

(c)

Change $13\ m^2$ into cm^2.

$130000\ cm^2$

(d)

Change $540\ 000\ cm^3$ into m^3.

$0.54\ m^3$

(e)

A pressure of $60\ N/m^2$ is exerted on a surface of area $1.5\ m^2$. Calculate the force on the surface.

$90\ N$

(f)

The density of a metal with a mass of $56.84\ g$ is $2.8\ g/cm^3$. Find the volume of the metal.

$20.3\ cm^3$

(g)

Tia sets off on a drive at 9.30am. She drives for 114 km and arrives at her destination at 11am. Find her average speed.

$76\ km/h$

(h)

A plane travels for 5 hours 45 minutes at an average speed of $625\ km/h$. Find the distance travelled to the nearest km.

$3594\ km$

(i)

The Eurostar train travels $492\ km$ from London to Paris at a speed of $220\ km/h$. Find the time taken for the journey, in hours and minutes, to the nearest minute.

$2\ hours\ 14\ minutes$

(j)

Convert $18\ m/s$ to a speed in km/h.

$64.8\ km/h$

(k)

Convert $540\ km/h$ to a speed in m/s.

$150\ m/s$

(l)

Zeeshan sets off at 10.30am and drives from A to B at a speed of $57\ km/h$. The distance from A to B is $38\ km$. He then travels from B to C, a distance of $108\ km$. At what speed must Zeeshan travel from B to C in order to reach C at 12.30pm?

$81\ km/h$

(m)

A metal cylinder has a height of $15\ cm$ and a mass of $768\ g$. The density of the cylinder is $3.2\ g/cm^3$. Find the radius of the cylinder, to 3 significant figures.

$2.26\ cm$