# Compound measures 

A car travels 100 km in 2 hrs . What is its average speed in $\mathrm{km} / \mathrm{h}$ ? In $\mathrm{m} / \mathrm{s}$ ?

Another car travels 100 km in 2 hrs 30 minutes. What is its average speed in $\mathrm{km} / \mathrm{h}$ ? In $\mathrm{m} / \mathrm{s}$ ?

An object has density $45 \mathrm{~kg} / \mathrm{m}^{3}$ and a mass of 135 kg . What is the object's volume?

A jet flies for 3 hrs 20 minutes at an average speed of 600 mph . How far does it fly?

Lewis Hamilton does a lap of Monaco in 1 minute 20 seconds. If one lap is 3.3 km long, what was his average speed in $\mathrm{km} / \mathrm{min}$ ? In $\mathrm{km} / \mathrm{h}$ ?

A block of concrete is 3 cm wide, 4 cm high and 5 cm long. It has a mass of 15 kg . What is its density in $\mathrm{kg} / \mathrm{cm}^{3}$ ? In $\mathrm{kg} / \mathrm{m}^{3}$ ?

A person drives 15 km to the shops at an average speed of $30 \mathrm{~km} / \mathrm{h}$, then drives back at an average speed of $60 \mathrm{~km} / \mathrm{h}$. What is their average speed over the two journeys?
(Hint: The answer is not $45 \mathrm{~km} / \mathrm{h}!$ )

