Compound Measures

Compound measures	involve two separate units of measurement	Miles per hour	m.p.h
	they are*…measures that require more than one unit to give their value.*	Kilometres per hour	km.p.h
		Metres per second	m/s
		Miles per litre	

(Oxford Study Mathematics dictionary)

The Rules:

1. Identify the values and units
2. Perform the calculation and identify the units
3. Round up as necessary

Example 1

Priti's car uses 35 litres of petrol to travel 310 miles. What is the rate of petrol consumption?

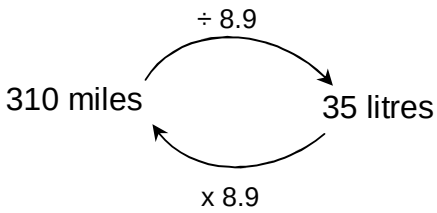
The rate of petrol consumption = = 310 miles for every 35 litres

$= \frac{310}{35}$ for every 1 litre

= 8.85714…miles for every litre

= 8.9 miles per litre (1 decimal place)

This means that for every 1 litre of petrol used the car travels 8.9 miles



Example 2

Shola runs in a race. She travels 100 m in 10.23 seconds. What is her average speed?

The speed (rate of travel) of Shola = = 100 metres for every 10.23 seconds

$= \frac{100}{10.23}$ in every 1 second

= 977517…m in every 1 second

= 9.8 m/s (1 decimal place)

This means that in every second Shola covers a distance of 9.8 metres.