The Practise Ground

Class 8-9 Science

Motion, Density & Pressure

Four formulas from your physics chapters

1

$$v = d / t$$

Speed
Distance divided by time (m/s or km/h)

2

$$\rho = m / V$$

Density
Mass per unit volume (kg/m^3 or g/cm^3)

3

$$P = F / A$$

Pressure
Force per unit area (pascal, Pa)

4

$$W = F \times d$$

Work done
Force × distance moved along the force (joule, J)

d	t	m	F	A
distance	**time**	**mass**	**force**	**area**
metre (m)	second (s)	kg	newton (N)	m^2

Remember

Speed has only size. Velocity has size and direction.

The same force on a smaller area gives more pressure.

Quick example

A car travels 150 km in 3 hours.

Speed = 150 / 3 = 50 km/h

Think you've got it? Test yourself.

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