

Q.) Explain the meaning of the term speed

Ans) The distance covered or travelled by a body in a unit time is called the speed of the body.

Q.) Write the S.I unit of speed

Ans) The S.I unit of speed is $\frac{D}{t}$

$\frac{\text{Distance travelled}}{\text{Time taken}}$

Q.) A car travels with a speed ^{12 m/s} ~~12 m/s~~ while a scooter travels with a speed 36 km h^{-1} . Which of the two travels faster.

Ans) ~~12 m/s~~ Speed of the car = 12 m/s
Speed of the scooter = 36 km h^{-1}
 $1 \text{ km} = 1000 \text{ m}$
 $36 \text{ km} = 36 \times 1000 = 36000 \text{ m}$
 $1 \text{ h} = 3600 \text{ s}$

The speed of the scooter $\frac{36000 \text{ m}}{3600 \text{ s}} = \underline{10 \text{ m}^{\text{s}}}$

So the car is ~~more~~ faster.