

7K2b- Speed, Velocity and Acceleration

1. Write down below the equation for speed, along with the rearrangements of that equation to give distance and time.

Speed = _____

Distance = _____

Time = _____

(3 marks)

2. Speed Calculations.

(a) A person walks quickly across the school field. They cover a distance of 400 m in a time of 3 minutes. What is their speed in m/s?

(b) A car travels along the road at 13.5 m/s. How far does the car travel in a time of 30s?

(c) An aeroplane travels at 200 m/s. How long does it take to do the journey of 720 km from London to Geneva in Switzerland?

(d) Estimate the distance that you could walk in a quarter of an hour.

(8 marks)

3. Speed is a measure of the _____ travelled by an object in a certain amount of time. It is measured in units called _____.

Velocity is speed in a given _____. Speed is a _____ quantity while velocity is a _____.

If an object is accelerating, that means its _____ is changing. It could be speeding up, slowing down or changing _____.

(7 marks)