

1 Recall the equation linking **distance**, speed & time

2 What are the units for **a) speed b) distance c) time**

3 A car travels 3000m in 900s. Calculate:

a) the average speed of the vehicle in m/s

b) how far (in metres) the car travels if it travelled at this speed for 3,600s?

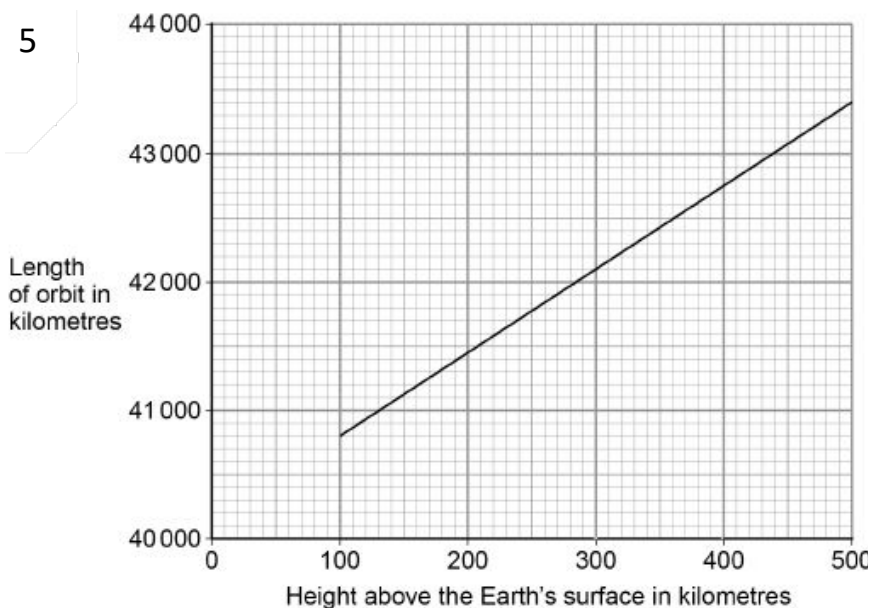
c) how long (in seconds) would it take to travel a distance of 6,000 m at this speed?

4 A car travels 4 km in 19 minutes. Calculate:

a) the average speed of the vehicle in m/s

b) how far (km) the car travels if it travelled at this speed for 1,800s?

c) how long (minutes) would it take to travel a distance of 82 km at this speed?



The graph shows how the length of a satellite orbit depends on the height of the satellite above the Earth's surface.

6 A satellite travelling at **7.5 km/s** is orbiting the Earth **450 km above the Earth's surface**. Calculate how many **complete orbits** of the Earth the satellite will make in **24 hours**.