Question #64951, Physics / Other

An aeroplane travels a distance of 8000 km at constant speed in 12h calculate : its speed in ms-1 - the number of km travelled in 20 min - the time taken to travel 100 km

Solution

$v = \frac{d}{t}$;

$v = \frac{8000}{12} = 666.67$ km/h = 185.19 m/s

$d(20') = 666.67 \times \frac{1}{3} \cong 222$ km

$t(100\ km) = \frac{100}{666.67} = 0.15$ h = 9 min