Answer on Question #42588 – Physics - Mechanics | Kinematics | Dynamics

an electric train is moving in the velocity of 120km/hr.how much distance it will move in 30sec,

Solution:

$V = 120 \dfrac{\text{km}}{\text{hr}} = 33.3 \dfrac{\text{m}}{\text{s}}$ − velocity of the train;

$t = 30\text{s}$ − time of movement;

Formula for the distance:

$\text{distance} = \text{velocity} \cdot \text{time} = 33.3 \dfrac{\text{m}}{\text{s}} \cdot 30\text{s} = 999\text{m}$

Answer: traveled distance is equal to 999m.