

You know how you close your eyes when you sneeze? Suppose you are driving along at a constant 99.9 km/h (i.e., 62 mi/h) and you experience a 1.00 s long, eyes-closed, giant sneeze. How many meters does the car travel while you are out of control?

Solution:

We must convert the speed in meters per second:

$$99.9 \frac{km}{h} = \frac{99.9 m}{3.6 s} = 2.775 \frac{m}{s}$$

Traveled distance:

$$D = V \cdot t = 2.775 \frac{m}{s} \cdot 1s = 2.775m$$

Answer: car travel distance $D = 2.775m$

