

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:

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

Traveled distance:

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

**Answer:** car travel distance  $D = 2.775\text{m}$

