Answer on Question 53333, Physics, Other

Question:

The speed of a car cruising along the highway was $90.0\ km/h$. What is the value in meters per second?

Solution:

Let's convert kilometers per hour to meters per second:

$$v = \left(90\frac{km}{h}\right) \cdot \left(\frac{1000m}{1km}\right) \cdot \left(\frac{1h}{3600s}\right) = 25\frac{m}{s}.$$

Answer:

$$v = 25\frac{m}{s}.$$