

Answer on Question#34755 - Math – Other

I JUST WANT TO CONVERT 10.2 m/s to km/h.

Solution.

We know that $1 \text{ km} = 1000\text{m}$ and $1\text{h} = 3600\text{s}$.

So, $1\text{m} = \frac{1}{1000}\text{km}$ and $1\text{s} = \frac{1}{3600}\text{h}$. Substitute this values in our velocity.

We obtain:

$$\begin{aligned} 10.2 \frac{\text{m}}{\text{s}} &= 10.2 * 1\text{m} * \frac{1}{1\text{s}} = 10.2 * \frac{1}{1000}\text{km} * \frac{1}{\frac{1}{3600}\text{h}} = 10.2 * \frac{1}{1000}\text{km} * \frac{3600}{\text{h}} = 10.2 * \frac{3600\text{km}}{1000\text{h}} \\ &= 36.72 \frac{\text{km}}{\text{h}} \end{aligned}$$

Answer. 10.2 m/s=36.72km/h.