## Question 5520

What is the frequency of a wave if its wavelength is $3.6 \times 10-9 \mathrm{~m}$ and its velocity is $3.0 \times 10(8)$ $\mathrm{m} / \mathrm{s}$ ?
Please explain your answer

The wavelength is by definition: $\quad \lambda=v T=\frac{v}{v}$ Hence, the the frequency is $\quad v=\frac{v}{\lambda} \approx 8.33 \cdot 10^{16} s^{-1}$

