Question 5520

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

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