## Answer on Question \#71961-Physics-Astronomy-Astrophysics

A microwave has a 3 cm wavelength. How many complete microwaves could you fit into a long wave radio wavelength of 1000 m ?

## Solution

The number of complete microwaves is

$$
\begin{gathered}
n=\frac{\lambda^{\prime}}{\lambda} \\
n=\frac{1000}{0.03}=33333.3333
\end{gathered}
$$

Round to 33333.

Answer: 33333.

