

### Answer on Question #40532 – Physics – Other

Speed of a wave having frequency 300 Hz is 340 m/s. Find out its wavelength.

#### **Solution:**

$f = 300\text{Hz}$  – frequency of the wave;

$v = 340 \frac{\text{m}}{\text{s}}$  – speed of the wave;

Formula for the wavelength:

$$\lambda = \frac{v}{f} = \frac{340 \frac{\text{m}}{\text{s}}}{300 \frac{1}{\text{s}}} = 1.13\text{m}$$

**Answer:** wavelength is equal to 1.13m.