A

A







We can find the \_\_\_\_\_\_ (***v***) of a wave by measuring how far the wave travels (distance, ***d***) in a known \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ (time, ***t***). This uses the formula:

$$d=v×t$$

It is also possible to calculate the speed of a wave if we know the wavelength (******) and \_\_\_\_\_\_\_\_\_\_ (***f***) of the wave. This uses the formula:

$$v=f×λ$$

The frequency of a single wave can be expressed as the relationship between the frequency and the \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ for one wave, the \_\_\_\_\_\_\_\_ of a wave, (***T***).

$$f=\frac{1}{T}$$

Similarly, the frequency of a number of waves (***\_\_***) passing a given point in a fixed time (***\_\_***) can be expressed as:

$$f=\frac{N}{t}$$