1. The formula $v = f\lambda$ can be used to calculate the wave speed, v m/s, of a wave with a frequency, f Hz, and wavelength λ m.

{FYI v is the velocity or speed of the wave. The unit Hz is read a bit like "hurts".}

Calculate the speed of a wave with a frequency of 50 Hz and a wavelength of 6 m.

.....m/s

The mass of an aluminium window frame is 2700 g and it's volume is 1000 cm³
Work out the density of the aluminium.

 \dots g/cm³

proportional Formula
NC (7) Q1: 300; Q2: 2.7; Q3: 600; Q4: 0.02 $\,$

1. The formula $v = f\lambda$ can be used to calculate the wave speed, v m/s, of a wave with a frequency, f Hz, and wavelength λ m.

 $\{FYI v \text{ is the velocity or speed of the wave. The unit Hz is read a bit like "hurts".}$

Calculate the speed of a wave with a frequency of 50 Hz and a wavelength of 6 m.

.....m/s

 The mass of an aluminium window frame is 2700 g and it's volume is 1000 cm³ Work out the density of the aluminium.

 $\ldots g/cm^3$

3. A ship travels for 30 hours at an average speed of 20 mph $\,$

Work out the distance that this ship travels.

..... miles

4. The formula F = ke is called Hooke's Law. It calculates the force, F N, to extend a spring by an extension, e m, when the spring constant is k N/m.

Work out the extension of the spring when a force of 200 N is applied to a spring with a spring constant of 10 000 N/m.

..... m

3. A ship travels for 30 hours at an average speed of 20 mph

Work out the distance that this ship travels.

..... miles

4. The formula F = ke is called Hooke's Law. It calculates the force, F N, to extend a spring by an extension, e m, when the spring constant is k N/m.

Work out the extension of the spring when a force of 200 N is applied to a spring with a spring constant of 10 000 N/m.

..... m