**Task.** A water wave has a speed of v=23.0 meters/second. If the wave's frequency is  $\nu=0.0680$  hertz, what is the wavelength?

**Solution.** The wavelength  $\lambda$  is related with the velocity v and the frequency  $\nu$  of the wave via the following formula:

$$\lambda = v\nu$$
.

Substituting values we get

$$\lambda = 23 * 0.068 = 1.564 m.$$

Answer.  $\lambda = 1.564 \ m$ .