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

$$
\lambda=23 * 0.068=1.564 \mathrm{~m}
$$

Answer. $\lambda=1.564 \mathrm{~m}$.

