

- 23** High-frequency sound waves with frequency  $2.0\text{ MHz}$  travel with a speed of  $2.0\text{ km s}^{-1}$  through a liquid.

What is the shortest distance between a compression and a rarefaction (expansion) in the liquid?

- A**  $0.5\text{ mm}$       **B**  $1.0\text{ mm}$       **C**  $5.0\text{ mm}$       **D**  $10.0\text{ mm}$