

**22** A sound wave reduces in intensity but maintains a constant frequency as it travels through air.

Which statement is correct?

- A** The maximum displacement of the particles changes between one particle and the next particle.
- B** The phase difference between adjacent particles is zero.
- C** The wavelength is the distance between two particles that have a phase difference of  $180^\circ$ .
- D** Two particles that have a phase difference of  $360^\circ$  have the same maximum displacement.