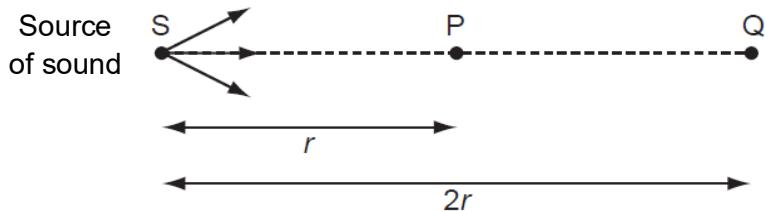


- 12** Sound is emitted from a point source S. At point Q, air molecules oscillate with amplitude  $6.0 \mu\text{m}$ .

What is the amplitude of oscillation of air molecules at P?



- A**  $0.75 \mu\text{m}$
- B**  $1.5 \mu\text{m}$
- C**  $3.0 \mu\text{m}$
- D**  $12.0 \mu\text{m}$