

**27** A moving source emits sound of frequency 1200 Hz.

A stationary observer hears sound of frequency 960 Hz. The speed of the sound is  $340 \text{ m s}^{-1}$ .

What could be the velocity of the source?

- A**  $68 \text{ m s}^{-1}$  directly away from the observer
- B**  $68 \text{ m s}^{-1}$  directly towards the observer
- C**  $85 \text{ m s}^{-1}$  directly away from the observer
- D**  $85 \text{ m s}^{-1}$  directly towards the observer