

22 A source of sound waves is moving at a constant speed directly towards a stationary observer.

The sound waves have a speed of 340 ms^{-1} and a frequency of 480 Hz. The observer hears sound waves of frequency 650 Hz.

What is the speed of the source?

A 89 ms^{-1}

B 120 ms^{-1}

C 250 ms^{-1}

D 340 ms^{-1}