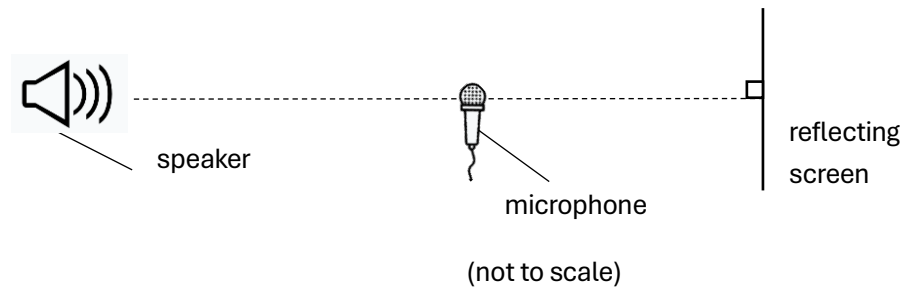


- 16** A microphone is kept stationary between a speaker and a reflecting screen as shown in the diagram below.



A minimum signal is detected by the microphone. As the reflecting screen is moved through 80 cm to the right, another six minimum signals are detected.

Given that the speed of sound in air is 330 ms^{-1} , what is the frequency of the sound being emitted by the speaker?

- A** 830 Hz
- B** 1200 Hz
- C** 2300 Hz
- D** 2500 Hz

