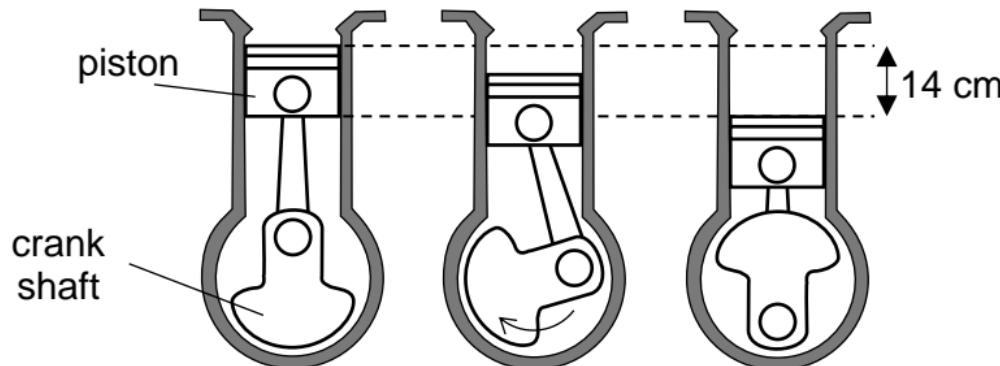


- 14 A piston undergoes simple harmonic motion vertically when cranked by a rotating crank shaft as shown in the diagram below. A coin rests on top of the initially stationary piston. The rotation of the crank shaft gradually increases in speed.



What is the frequency at which the coin loses contact with piston?

- A 1.0 Hz
- B 1.3 Hz
- C 1.9 Hz
- D 26 Hz