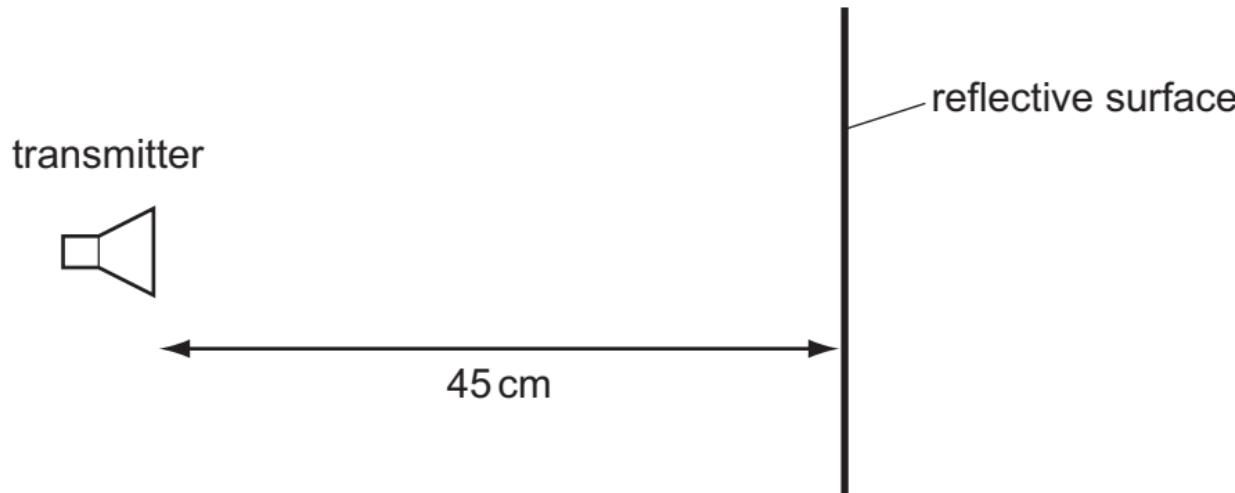


27 A transmitter of electromagnetic waves is placed 45 cm from a reflective surface.



The emitted waves have a frequency of 1.00 GHz. A stationary wave is produced with a node at the transmitter and a node at the surface.

How many antinodes are in the space between the transmitter and the surface?

A 1

B 2

C 3

D 4

28 A teacher sets up the apparatus shown to demonstrate a two-slit interference pattern on the