

Science

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(Chapter – 12) (Sound)

Page 168

Question 1:

An echo returned in 3 s. What is the distance of the reflecting surface from the source, given that the speed of sound is 342 ms^{-1} ?

Answer 1:

Time for echo = 3 s

$v = 342 \text{ m/s}$

Therefore distance: $d = v \times t = 342 \times 3 \text{ m} = 513 \text{ m}$.