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## KINEMATICS

3.2 A person hears the echo of his own sound from a distant hill after 2 secs. How far away is the person from the hill, if the speed of sound is  $330 \text{ ms}^{-1}$

DATA:-

$$\text{Time} = t = 2 \text{ secs}$$

$$\text{Distance} = S = ?$$

$$\text{Velocity} = v = 330 \text{ ms}^{-1}$$

$$\text{Distance of person} = 2D = ?$$

from hill

SOLUTION:-

$$S = \underline{v} \times t$$

$$2D = \underline{330} \times 2$$

$$D = \frac{330 \times 2}{2}$$

$$\text{Distance} = 330 \text{ m}$$

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