Answer on Question #47920, Physics, Mechanics — Kinematics — Dynamics A fish finder uses sonar to find fish under water. It does this by sending out a pulse of sound and measuring the time for the sound to return. If it takes 0.016 s for sound to be detected after being emitted, how far away are the fish? Hint, the speed of sound in water is 1440 m/s. Solution

Half of time sound travels to the fish and half of time it returns. Fish is at the distance

$$s = \frac{vt}{2} = \frac{1440 \cdot 0.016}{2} = 115.2 \,m$$

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