

Question number		Answer	Notes	Marks
6	(a)	<p>MP1. Substitution into correct equation;</p> <p>MP2. Rearrangement;</p> <p>MP3. Divide by 2;</p> <p>MP4. Conversion between km and m;</p> <p>e.g.</p> $1.5 \times 1000 = 1500$ <p>Speed = $\frac{\text{distance}}{0.26}$</p> $\text{Distance} = 1500 \times 0.26 = 390 \text{ (m)}$ <p>So distance to fish = 195 m</p>	<p>Accept x 1000 at any point in calculation</p> <p>0.39 gets 2 marks</p> <p>390 gets 3 marks</p>	4
	(b)	<p>Any two of</p> <p>MP1. Reflected from different depths within shoal;</p> <p>MP2. So (reflected pulse(s)) travels different distances;</p> <p>MP3. Fish move;</p> <p>MP4. Reflection from sea bed;</p>		2

Total 6 marks