

- 25** A sound wave of frequency 150 Hz travels in water at a speed of 1500 m s^{-1} . It then travels through the surface of the water and into air, where its speed is 300 m s^{-1} .

Which line in the table gives the correct values for the wavelengths of the sound in water and in air?

| | wavelength in water / m | wavelength in air / m |
|----------|----------------------------|--------------------------|
| A | 0.10 | 0.10 |
| B | 0.10 | 0.50 |
| C | 10 | 2.0 |
| D | 10 | 50 |