

**27** Three statements about two progressive waves are listed.

- 1 The waves have the same frequency.
- 2 The waves have the same amplitude.
- 3 The waves are emitted with a constant phase difference.

Which statements **must** be correct for the two waves to be coherent?

- A** 1, 2 and 3      **B** 1 and 2 only      **C** 1 and 3 only      **D** 2 and 3 only