

- 16** Waves P and Q have the same amplitude. The waves meet in phase at point X and interfere to give a resultant wave with intensity I .

The amplitude of wave P is doubled.

What is the new intensity of the resultant wave at X, in terms of I ?

- A** $0.44I$ **B** $1.5I$ **C** $2.3I$ **D** $3.0I$