

**28** 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**  $3.0I$