18 Two waves X and Y have the same frequency. The amplitude of X is $1.5A_0$ and the amplitude of Y is $2.0A_0$. The waves meet at a point and superpose to form a resultant wave.

For the resultant wave, what is the ratio $\dfrac{\text{maximum possible intensity}}{\text{minimum possible intensity}}$?

A 2.6 **B** 7 **C** 16 **D** 49