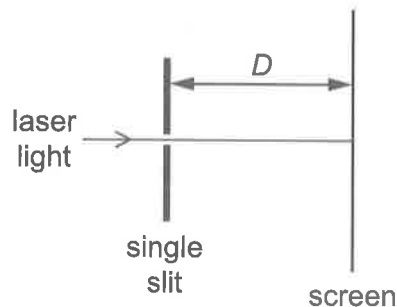19 Laser light of frequency f passes through a single slit. The resulting diffraction pattern is observed on a screen. The width of the central maximum is x. The distance D between the single slit and the screen is much greater than the slit width.

What is the correct expression for the slit width?

A $\dfrac{cx}{2Df}$　　　B $\dfrac{cx}{Df}$　　　C $\dfrac{cD}{fx}$　　　D $\dfrac{2cD}{fx}$