23 Using monochromatic light, interference fringes are produced on a screen placed a distance *D* from a pair of slits of separation *a*. The separation of the fringes is *x*.

Both *a* and *D* are now doubled.

What is the new fringe separation?

A $\dfrac{x}{2}$ **B** *x*   **C** 2*x*   **D** 4*x*