

- 30** In an experiment to demonstrate double-slit interference using light, the distance from the slits to the screen is doubled and the slit separation is halved. The wavelength of the light is kept constant.

By which factor does the separation of adjacent bright fringes change?

**A**  $\frac{1}{4}$

**B**  $\frac{1}{2}$

**C** 2

**D** 4