

**17** In a double-slit interference experiment, one slit transmits waves of twice the amplitude compared to the other slit. The intensity at one of the bright fringes on the screen is  $I_o$ .

What is the intensity at the dark fringe closest to this bright fringe?

**A** zero

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

**C**  $\frac{I_o}{4}$

**D**  $\frac{I_o}{9}$