

**29** Interference fringes are produced on a screen by double-slit interference using light of wavelength  $600\text{ nm}$ . The fringe separation is  $4.0\text{ mm}$  and the separation of the slits is  $0.60\text{ mm}$ .

What is the distance between the double slit and the screen?

**A**  $0.25\text{ m}$

**B**  $0.40\text{ m}$

**C**  $2.5\text{ m}$

**D**  $4.0\text{ m}$