

**28** Interference fringes of separation  $x$  are observed on a screen at a distance of 1.00 m from a double slit that is illuminated by yellow light of wavelength 600 nm.

At which distance from the double slit would interference fringes of the same separation  $x$  be observed when using blue light of wavelength 400 nm?

**A** 0.33 m

**B** 0.67 m

**C** 0.75 m

**D** 1.50 m