

- 18** In a double-slit interference experiment a pair of slits 0.45 mm apart were placed 0.70 m from the screen. When monochromatic light from a laser was incident normally on the slits, an interference pattern was formed on the screen. The distance between the central bright fringe and the 10th dark fringe was found to be 7.5 mm.

What was the wavelength of the incident light?

- A** 4.6×10^{-7} m **B** 4.8×10^{-7} m **C** 5.1×10^{-7} m **D** 4.8×10^{-6} m