17 A beam of monochromatic light of wavelength 450 nm passes through two narrow parallel slits in a black card in a darkened room. An interference pattern is observed on a distant screen. The distance from the centre of the pattern to the centre of the first dark region is 1.2 mm.

The light source is replaced by a similar light source emitting light of wavelength 600 nm.

What is the distance between adjacent fringes in the new pattern seen on the distant screen?

A 0.90 mm **B** 1.6 mm **C** 1.8 mm **D** 3.2 mm