

- 27** A double slit experiment, using light of wavelength 600 nm, results in fringes being produced on a screen. The fringe separation is found to be 1.0 mm.

When the distance between the double slits and the viewing screen is increased **by** 2.0 m, the fringe separation increases **to** 3.0 mm.

What is the separation of the double slits producing the fringes?

- A** 0.4 mm      **B** 0.6 mm      **C** 0.9 mm      **D** 1.2 mm

**Space for working**