25 A wave has a speed of $340\,m\,s^{-1}$ and a period of 0.28 ms.

What is its wavelength?

A 0.095 m **B** 95 m **C** 1.2×10^3 m **D** 1.2×10^6 m

26 Which line in the table summarises the change in wave characteristics on going from infra-red to ultraviolet in the electromagnetic spectrum?

	frequency	speed in a vacuum
A	decreases	decreases
B	decreases	remains constant
C	increases	remains constant
D	increases	increases

27 Light of wavelength 600 nm is incident on a pair of slits. Fringes with a spacing of 4.0 mm are formed on a screen.

What will be the fringe spacing when the wavelength of the light is changed to 400 nm and the separation of the slits is doubled?

A 1.3 mm

B 3.0 mm

C 5.3 mm

D 12 mm

Space for working