

**10** A monochromatic beam of light of wavelength  $\lambda$  from a laser is directed at a diffraction grating of line spacing  $d$ .

A student calculates the value of  $d/\lambda$  in order to determine the expected number of visible maxima.

The calculated value of  $d/\lambda$  is 4.7

How many maxima are visible?

☐ **A** 4

☐ **B** 5

☐ **C** 9

☐ **D** 11

**(Total for Question 10 = 1 mark)**