

**28** A parallel beam of red light of wavelength  $700\text{ nm}$  is incident normally on a diffraction grating that has 400 lines per millimetre.

What is the total number of intensity maxima from the grating?

**A** 6

**B** 7

**C** 8

**D** 9

**29** Two wave sources are oscillating in phase. Each source produces a wave of wavelength  $\lambda$ . The