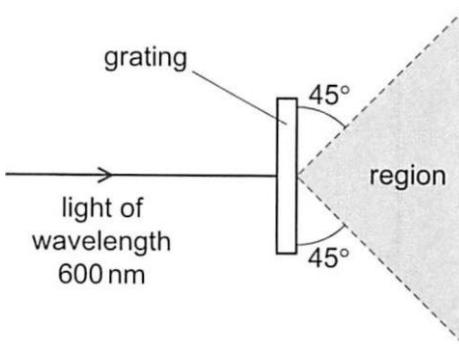


- 18** A parallel beam of light of wavelength 600 nm is incident normally on a diffraction grating. The grating has 500 lines per millimetre.



How many beams of coherent light emerge from the grating within the shaded region shown in the diagram?

**A** 2

**B** 3

**C** 4

**D** 5