

- 19** A beam of monochromatic light of wavelength 500 nm is incident normally on a diffraction grating. The diffraction grating is placed 1.2 m away from the screen and the horizontal distance between the two second-order maxima is 1.5 m.

What is the number of lines per millimeter of the grating?

- A** 530 lines per mm
- B** 625 lines per mm
- C** 1250 lines per mm
- D** 1740 lines per mm