

**28** Light of a single wavelength is incident normally on a diffraction grating.

The resulting diffraction pattern is displayed on a screen.

Which change makes the first orders of intensity maxima further apart from each other on the screen?

- A** placing the screen closer to the diffraction grating
- B** using a diffraction grating with less separation between adjacent slits
- C** using a diffraction grating with more slits but keeping the same separation between adjacent slits
- D** using light with a shorter wavelength