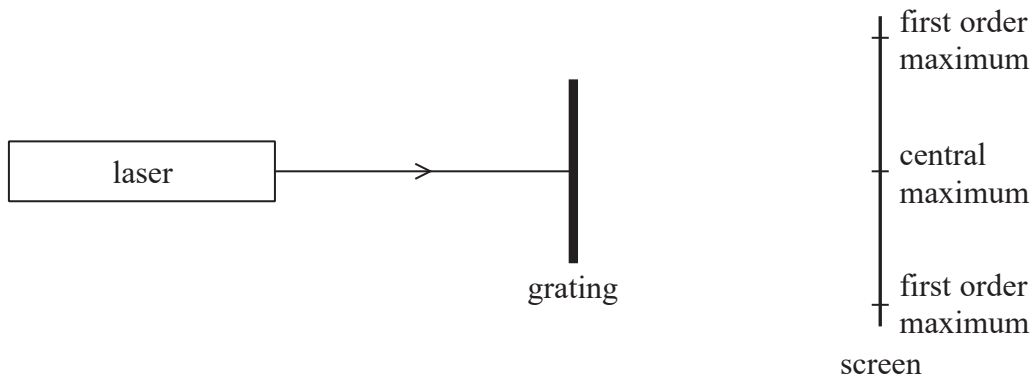


**10** A beam of light from a laser is directed at a diffraction grating.

The diagram shows the positions of the central maximum and the first order maxima on a screen.



Which of the following would cause the first order maxima to be closer to the central maximum on the screen?

- ☐ **A** moving the laser closer to the grating
- ☐ **B** moving the screen further from the grating
- ☐ **C** using a grating with more lines per metre
- ☐ **D** using laser light with a higher frequency

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