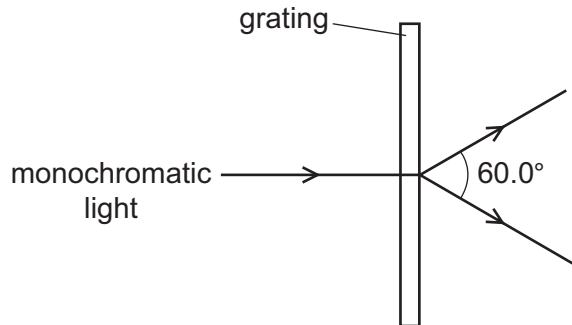**29** A diffraction grating is used to measure the wavelength of monochromatic light.

The spacing of the slits in the grating is 1.15×10^{-6} m. The angle between the first order diffraction maxima is 60.0°, as shown in the diagram.

What is the wavelength of the light?

A   288 nm   **B**   498 nm   **C**   575 nm   **D**   996 nm