

- 11** A student shone green light from a laser through a diffraction grating, producing a diffraction pattern on a screen. The student determined the angle of the third order maximum.

Calculate the wavelength of the green light.

angle of third order maximum =  $73.3^\circ$

grating spacing =  $1.67 \times 10^{-6} \text{ m}$

Wavelength = .....

**(Total for Question 11 = 2 marks)**