

- 17** A light source emits light which is a mixture of two wavelengths,  $\lambda_1$  and  $\lambda_2$ .

When the light is incident on a diffraction grating it is found that the fifth order of light of wavelength  $\lambda_1$  occurs at the same angle as the fourth order for light of wavelength  $\lambda_2$ .

If  $\lambda_1$  is 480 nm, what is  $\lambda_2$ ?

- A** 400 nm                      **B** 480 nm                      **C** 600 nm                      **D** 750 nm

