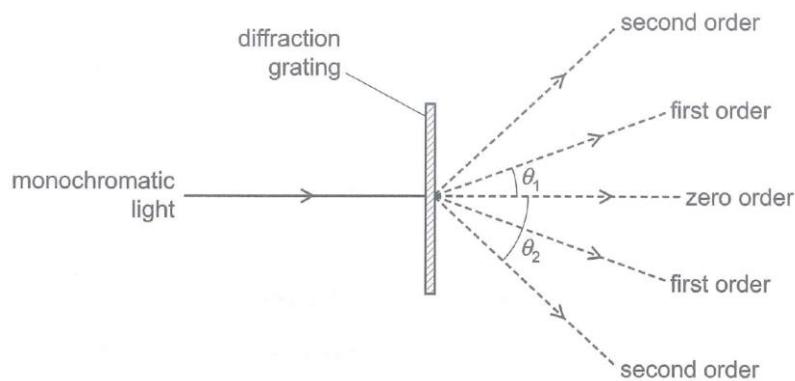


- 16** Monochromatic light is incident normally on a diffraction grating. First and second order images are observed at angles of diffraction of θ_1 and θ_2 respectively.

The diagram is not to scale.



What is the relation between the angles of diffraction and between the intensities of light observed in the two orders?

	Angles of diffraction	Intensities
A	$2\theta_1 = \theta_2$	first order brighter
B	$2\theta_1 = \theta_2$	same
C	$2\theta_1 < \theta_2$	first order brighter
D	$2\theta_1 < \theta_2$	same