8	**D is the correct answer as decreasing the distance between the central maximum and the first order maximum would require sinθ to be reduced (presuming that the distance from the diffraction grating to the screen is unchanged), and $\lambda = \frac{d\ sin\theta}{n}$** A is not the correct answer as this does not affect sinθ B is not the correct answer as this would increase the distance between the central maximum and first order maximum C is not the correct answer as more lines per mm would make d smaller, so as $d = \frac{n\lambda}{sin\theta}$, which would make sinθ increas	**(1)**