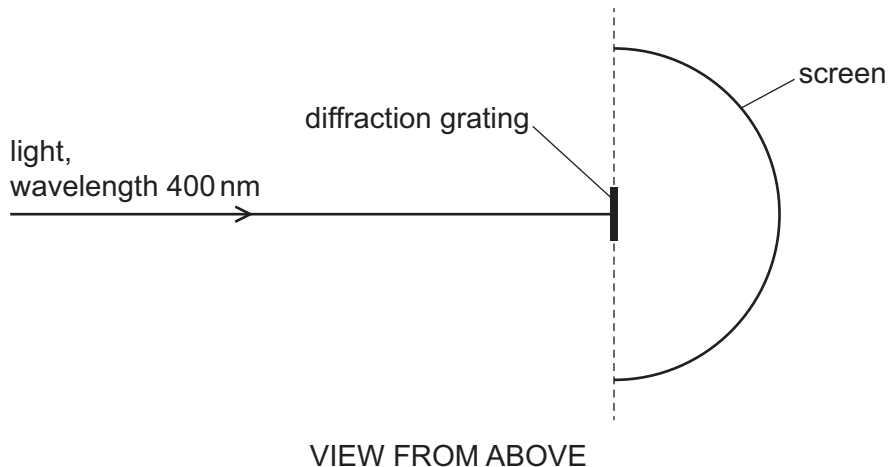


- 31** A beam of light of wavelength  $400\text{ nm}$  is incident normally on a diffraction grating that has 300 lines per millimetre. The light passes through the grating and produces a series of maxima which are observed on a semicircular screen, as shown.



What is the total number of maxima observed on the screen?

- A** 8                      **B** 9                      **C** 16                      **D** 17