

- 15** A beam of monochromatic light falls on a diffraction grating at normal incidence. The third order diffracted beam occurs at an angle of  $50.8^\circ$  to the normal.

What is the highest order visible with this grating at this wavelength?

**A** 3

**B** 4

**C** 5

**D** 6

- 16** Which of the following is **not** a basic assumption of the kinetic theory of gases?