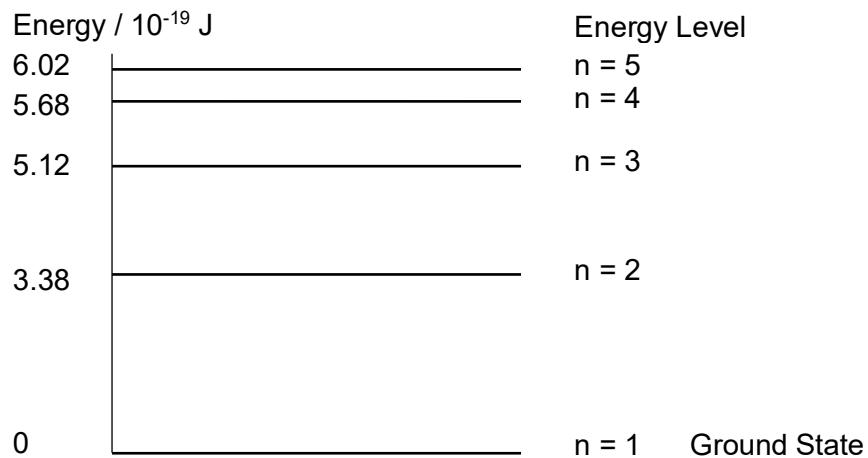


- 26** The diagram below shows a simplified representation of the 5 lowest energy levels of the outermost electron of a sodium atom.



Electrons of energy 5.8 eV are sent through a cloud of cool sodium atoms. When the sodium gas is observed through a diffraction grating, how many spectral lines are observed?

- A** 0
- B** 3
- C** 4
- D** 6