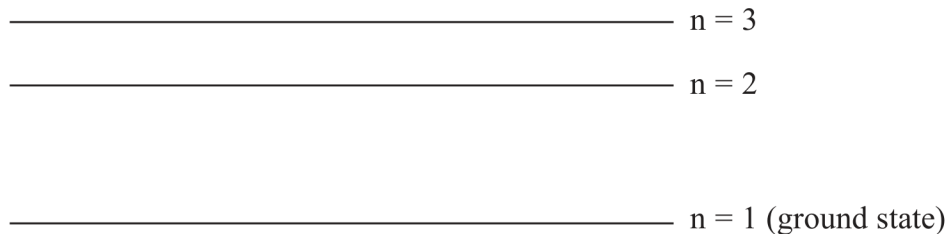


7 The diagram shows some of the energy levels in an atom.



Electrons in this atom are excited from the ground state to the energy level $n = 3$.

How many different frequencies of radiation can be emitted from this atom as electrons return to the ground state?

- ☐ A 1
- ☐ B 2
- ☐ C 3
- ☐ D 4

(Total for Question 7 = 1 mark)