Topic : Vertical Motion – Constant acceleration

The points P and Q are at the same height h metres above horizontal ground. A small stone is dropped from rest from P. Half a second later a second small stone is thrown vertically downwards from Q with speed 7.35 m s^{-1}. Given that the stones hit the ground at the same time, find the value of h.

(7)

(Total for question = 7 marks)