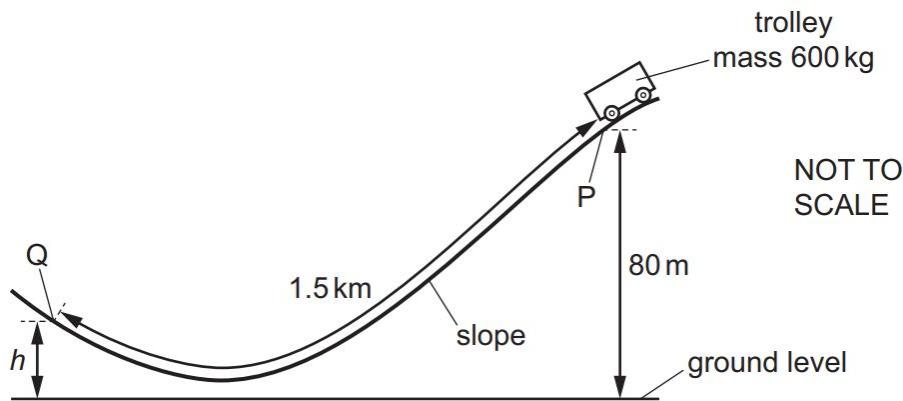


- 7 A trolley of mass 600 kg initially at point P on a slope, at height of 80 m above ground level, as shown. The trolley is released from rest and moves along the slope, reaches a speed of 12.0 m s^{-1} at point Q, at height h above the ground level.



The total distance PQ moved by the trolley along the slope is 1.5 km. A constant resistive force of 200 N opposes the motion of the trolley on the slope.

What is the value of h ?

- A 3.5 m B 22 m C 29 m D 55 m