Kinetic energy after falling a distance is equal to change of potential energy:

$Ek = \Delta Ep$

$\Delta Ep = m \times g \times \Delta h$

Where: g is the $acceletation$ due to $gravity,$ Δh $height$ $differents$ $(distance)$

On a condition: $m = 2\,Kg, \Delta h = 150m$

$Ek = \Delta Ep = 2 * 9.8 * 150 = 2940\,J.$

Answer: Kinetic energy after falling a distance 150 m will be 2940 J.