

Answer on Question #43273 – Physics – Mechanics | Kinematics | Dynamics

the total sum of work done for holding a 100kg object at a height of 2m above the floor for 20s is

- A. 0
- B. 100J
- C. 200J
- D. 2000J
- E. 4000J

Solution:

Work is defined as the product of the net force acting on a body and the distance moved in $distance = 0$ (the object is motionless) the direction of the force. $Work = force \cdot distance = 0$

Answer: A. 0