



- 9 Two 0.60-kilogram objects are connected by a thread that passes over a light, frictionless pulley, as shown above. The objects are initially held at rest. If a third object with a mass of 0.30 kilogram is added on top of one of the 0.60-kilogram objects as shown and the objects are released, the magnitude of the acceleration of the 0.30-kilogram object is most nearly

(A) 10.0 m/s^2
 (B) 6.0 m/s^2
 (C) 3.0 m/s^2
 (D) 2.0 m/s^2
 (E) 1.0 m/s^2

10. During a certain time interval, a constant force delivers an average power of 4 watts to an object. If the object has an average speed of 2 meters per second and the force acts in the direction of motion of the object, the magnitude of the force is

(A) 16 N
 (B) 8 N
 (C) 6 N
 (D) 4 N
 (E) 2 N