

1. For work to be done on an object, force must be applied
 - a. in an upward direction.
 - b. against the force of gravity.
 - c. in the same direction as gravity.
 - d. in the same direction that the object moves.
2. Work is directly related to the force applied to an object and to the
 - a. mass of the object.
 - b. distance the object moves.
 - c. direction of the applied force.
 - d. amount of time the force is applied.
3. If a mover pushes a box weighing 100 newtons a distance of 3 meters, how much work does she do?
 - a. 3 J
 - b. 33 J
 - c. 300 J
 - d. 3000 J
4. The power of a device can be expressed in
 - a. joules.
 - b. joules per meter.
 - c. joules per second.
 - d. none of the above
5. Work can be calculated as
 - a. force X time.
 - b. force X power.
 - c. power X time.
 - d. power X distance.
6. A device does 2000 joules of work in 10 seconds. What is the power of the device?
 - a. 20,000 W
 - b. 2000 W
 - c. 200 W
 - d. 20 W
7. One horsepower is the amount of work a horse can do in one
 - a. second.
 - b. minute.
 - c. hour.
 - d. day.