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.

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