



Work

Date: _____
Name: _____
Class: _____

1. Which of the following is a true statement about work?
 - a. It measures how quickly an object accelerates
 - b. It measures how much effort is applied over a certain distance
 - c. It measures the change in an object's rate of speed
 - d. It measures how much time it takes to move a massive object

2. When is positive work done?
 - a. When a force moves an object in a direction parallel to that force
 - b. When a force moves an object in a direction perpendicular to that force
 - c. When a force moves an object in a direction opposite to that force
 - d. When a force causes a moving object to slow down

3. What does one newton exerted over a distance of one meter equal?
 - a. One watt
 - b. One hertz
 - c. One volt
 - d. One joule

4. A kid applies a force of 70 N to a ball over 1.1 meters. How much work did he do on the ball? 
 - a. 77J
 - b. 7.7J
 - c. 0.7J
 - d. 770J

5. A weightlifter lifts two 300 newton weights 1.5 meters off the ground. How much work has he done?
 - a. 600 J
 - b. 660 J
 - c. 900 J
 - d. 1200 J

6. An object falls 5 meters with a force of 980 newtons. How much work has gravity done?
 - a. 4,900J
 - b. 980J
 - c. 49J
 - d. 490J

7. 320 joules of work were done by a force of 80 newtons. Over what distance was the force applied?

- a. 80m
 - b. 44m
 - c. 40m
 - d. 4m
8. 800 joules of work were done with a force of 200 newtons. Over what distance was the force applied?
- a. 40m
 - b. 20m
 - c. 4m
 - d. 2m
9. A box required 800J of work to lift 5 meters off the ground. How many newtons did the box weigh?
- 
- a. 40 N
 - b. 160 N
 - c. 80 N
 - d. 16 N
10. Simple machines make work easier by increasing what?
- a. The distance over which work is done
 - b. The force needed to do work
 - c. The time required to do work
 - d. The acceleration of a massive object

© 1999-2015 BrainPOP. All rights reserved.

Visit us at www.brainpop.com