

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