

## Test - Work, Power, Machines

Name: \_\_\_\_\_

### Multiple Choice (1 pt ea)

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. The actual mechanical advantage of a machine \_\_\_\_\_.
- cannot be less than 1
  - decreases as the input (effort) distance increases
  - increases with greater friction
  - is less than the ideal mechanical advantage of the machine
- \_\_\_\_\_ 2. Which of the following statements indicates the *best* way to increase power?
- increase the amount of work done in a given amount of time, or do a given amount of work in less time
  - increase the amount of work done in a given amount of time, or do a given amount of work in more time
  - decrease the amount of work done in a given amount of time, or do a given amount of work in less time
  - decrease the amount of work done in a given amount of time, or do a given amount of work in more time
- \_\_\_\_\_ 3. Liz throws a softball with a force of 63 N a distance of 25 m. Jamie throws the softball with the same amount of force, but the ball only goes 17 m. Which girl does less work?
- They do the same amount of work.
  - Liz
  - Jamie
  - Neither girl does any work.
- \_\_\_\_\_ 4. When a machine does work, a trade-off occurs. Which of the following best exemplifies that trade-off?
- A ramp allows you to decrease force, but requires a greater input force.
  - A pulley changes the direction of your force, but requires a greater input force.
  - A lever increases output force and the distance the load moves.
  - A wheel and axle decreases output force and the distance the load moves.
- \_\_\_\_\_ 5. Work input is greater than output on a shotgun used by a hunter. Which might explain where some of the input went?
- heat
  - sound
  - friction
  - all of the above
- \_\_\_\_\_ 6. Some simple machines are closely related to one another because of their shape or function. A variation of an inclined plane is a \_\_\_\_\_.
- wedge
  - wheel & axle
  - lever
  - pulley
- \_\_\_\_\_ 7. A machine is classified as a compound machine if it \_\_\_\_\_.
- is very efficient
  - has an IMA greater than 1
  - has moving parts
  - is made up of two or more simple machines that operate together
- \_\_\_\_\_ 8. A mechanical device requires 420 J of work to do 230 J of work in lifting a crate. What is the efficiency of the device?
- 55%
  - 183%
  - 190%
  - 0.5%
- \_\_\_\_\_ 9. An inclined plane reduces effort force by \_\_\_\_\_.
- reducing the effort distance
  - increasing the distance through which the force is applied
  - reducing the work
  - increasing the work

# Work And Machines Chapter Test Answers

**Lei Shi**



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