

11. Select all that are true

- 4 has the greatest mechanical advantage
- 2 is a fixed pulley
- 1 is a moveable pulley
- 3 is a Block and Tackle

12. The mechanical advantage of a machine that changes only the direction of force is

- 0.
- greater than 1.
- less than 1.
- 1.

13. A machine that uses two or more simple machines is called a

- compound machine.
- mixed machine.
- mechanical machine.
- combination machine.

14. What do machines do?

- decrease the amount of work that is done
- change the amount of force you exert or the distance over which you exert the force
- increase the amount of work that is done
- eliminate friction

15. A term that means the same thing as output force is

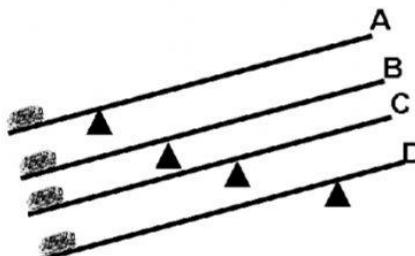
- effort force.
- input force.
- resistance force.
- multiplying force.

16. Work is measured in

- meters.
- pounds.
- joules.
- newtons.

17. A device with toothed wheels that fit into one another is called a

- wheel and axle.
- pulley.
- system of gears.
- fulcrum.



18. Which lever pictured above has the least Mechanical Advantage

- D
- B
- C
- A

19. The ideal mechanical advantage of a wheel and axle is equal to the

- length of the axle divided by the radius of the wheel.
- radius of the wheel divided by the radius of the axle.
- radius of the axle divided by the radius of the wheel.
- radius of the wheel divided by the length of the axle.

20. Which of these is an example of work being done on an object?

- holding a heavy piece of wood at a construction site
- holding a door shut on a windy day so it doesn't blow open
- trying to push a car that doesn't move out of deep snow
- pushing a child on a swing