Determine whether the italicized term makes each statement true or false. If the statement is true, write the word "true" in the blank. If the statement is false, write in the blank the term that makes the statement true.

__True__ 1. A device that makes work easier or more effective is called a *machine*.

__Six__ 2. There are *four* basic kinds of simple machines.

__Mechanical Advantage__ MA 3. The number of times a machine multiplies the force exerted on the machine is the *output force* of the machine.

__lever__ 4. A bar that is free to move about a fixed point is a *fulcrum*.

__true__ 5. A grooved wheel with a rope or chain running through the groove is a *pulley*.

__gears (system of)__ 6. A system of wheels with teeth is called an *axle*.

__Inclined Plane__ 7. A sloping surface used to raise objects is a *wedge*.

__true__ 8. A screw is an *inclined plane* wrapped in a spiral around a cylinder.

__true__ 9. A wheel and axle is a simple machine consisting of *two wheels* of different diameters that rotate together about a common axis.

__Wedge__ 10. An inclined plane with two sloping sides is a *screw*.

__one__ 11. The mechanical advantage of a fixed pulley is always *two*.

__true__ 12. The mechanical advantage of a block and tackle is equal to the *number of sections* of the rope that support the object.

__Compound__ 13. A machine made up of two or more simple machines is an *ideal* machine.

__less__ 14. Usually the efficiency of a real machine is always *greater* than 100%.

__true__ 15. To do *work*, a force must be applied in the direction of the object's motion.

__Joule__ 16. The unit for measuring work is a *newton*.

__true__ 17. The force exerted by the machine is the *output force*.

__efficiency__ 18. *Mechanical advantage* compares the work output to the work input.

__Output Arm__ 19. The *input arm* is the distance between the fulcrum and the object being moved.

__true__ 20. The type of mechanical advantage that does not account for friction is *ideal* mechanical advantage.

__Input__ 21. The distance that the person using a machine must move the machine is the *output distance*.

__true__ 22. A *first* class lever has the fulcrum in the center.

__movable__ 23. A *fixed* pulley is attached to the object being moved.