



21. Select all that are true
- a. 2 is a fixed pulley
 - b. 4 has the greatest mechanical advantage
 - c. 1 is a moveable pulley
 - d. 3 is a Block and Tackle

- ____ 22. Steve lifted a book off the floor and set it on a bookshelf . Which type of energy is transferred to the book?
- a. kinetic energy
 - b. potential energy
 - c. kinetic and potential energy
 - d. No energy is transferred.

Modified True/False

Decide if each statement is True or False, if it is false drag and drop the word that makes the statement true.

False word Bank(you don't use all the words):

no work force input 2 your work input work regular
simple divided by 1 joules 0 joules 25 joules size

- ____ 23. You do work on an object when you lift it from the floor to a shelf.

- ____ 24. Holding a 25-N bag of sugar 1 meter above the floor requires 25 joules of work.

- ____ 25. The force exerted by a machine is called the output force.

- ____ 26. The mechanical advantage of a machine that changes only the direction of a force is 1.

- ____ 27. Efficiency compares the output work to the output force. _____
- ____ 28. A wheel and axle is a compound machine. _____
- ____ 29. A second-class lever always multiplies distance. _____
- ____ 30. The ideal mechanical advantage of a wheel and axle is the radius of the wheel times the radius of the axle. _____