

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

## Mechanical Advantage Practice

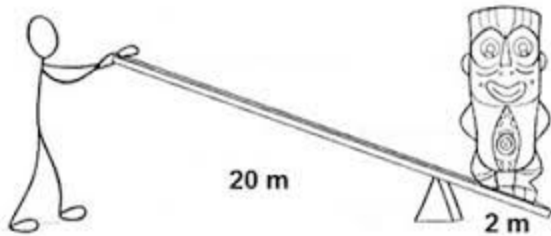
1. Mechanical Advantage can be calculated by Input Distance divided by Output Distance, or Output force divided by Input force. Remember, output is without a simple machine and input is with a simple machine. However, when using simple machines, we often have to calculate mechanical advantage in a slightly different way. Using your notes, write the equations or methods of calculating mechanical advantage for the following simple machines:

- Wheel and Axle:

- Lever:

- Pulley:

2. Observe the picture below. Label the effort arm, load arm, and fulcrum. What is the mechanical advantage of using this lever? Show your work.



3. Observe the picture below. Write in the mechanical advantage of each pulley. Remember, do not count the effort rope.

