

Mechanical Advantage of Simple Machines

NAME: KEY

We use simple machines to make tasks easier. While the output work of a simple machine can never be greater than the input work, a simple machine can multiply input forces OR multiply input distances (but never both at the same time). You can use this skill sheet to practice calculating mechanical advantage (MA) for two common simple machines: levers and ramps.

The general formula for the mechanical advantage (MA) of levers:

$$MA_{\text{lever}} = \frac{F_{\text{output force}}}{F_{\text{input force}}}$$

Or you can use the ratio of the input arm length to the output arm length:

$$MA_{\text{lever}} = \frac{L_i(\text{length of input arm})}{L_o(\text{length of output arm})}$$

Most of the time, levers are used to multiply force to lift heavy objects.

Example 1: A construction worker uses a board and log as a lever to lift a heavy rock. If the input arm is 3 meters long and the output arm is 0.75 meters long, what is the mechanical advantage of the lever?

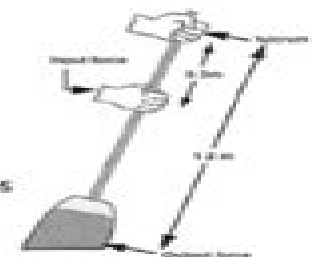
$$MA = \frac{3 \text{ meters}}{0.75 \text{ meters}} = 4$$



Example 2: Sometimes levers are used to multiply distance. For a broom, your upper hand is the fulcrum and your lower hand provides the input force. Notice the input arm is shorter than the output arm. The mechanical advantage of this broom is:

$$MA = \frac{0.3 \text{ meters}}{1.2 \text{ meters}} = 0.25$$

A mechanical advantage less than one doesn't mean a machine isn't useful. It just means that instead of multiplying force, the machine multiplies distance. A broom doesn't push the dust with as much force as you use to push the broom, but a small movement of your arm pushes the dust a large distance.



1. A lever used to lift a heavy box has an input arm of 4 meters and an output arm of 0.8 meters. What is the mechanical advantage of the lever?

$$MA = \frac{4 \text{ m}}{0.8 \text{ m}} = 5$$

2. What is the mechanical advantage of a lever that has an input arm of 3 meters and an output arm of 2 meters?

$$MA = \frac{3 \text{ m}}{2 \text{ m}} = 1.5$$

3. A rake is held so that its input arm is 0.4 meters and its output arm is 1.0 meters. What is the mechanical advantage of the rake?

$$MA = \frac{0.4 \text{ m}}{1.0 \text{ m}} = 0.4$$

Mechanical Advantage Study Guide

Morton M. Sternheim



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1. Understanding the eBook Mechanical Advantage Study Guide
 - The Rise of Digital Reading Mechanical Advantage Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Advantage Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Advantage Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Advantage Study Guide
 - Personalized Recommendations
 - Mechanical Advantage Study Guide User Reviews and Ratings
 - Mechanical Advantage Study Guide and Bestseller Lists
5. Accessing Mechanical Advantage Study Guide Free and Paid eBooks
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Advantage Study Guide
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Advantage Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Advantage Study Guide
 - Setting Reading Goals Mechanical Advantage Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Advantage Study Guide
 - Fact-Checking eBook Content of Mechanical Advantage Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
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 - Interactive and Gamified eBooks

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