

# Mechanical Advantage

\*Mechanical Advantage is a measure of how much help a machine gives you.

Two (2) Types of Mechanical Advantage

1. Actual MA=takes friction into account (uses forces).
2. Ideal MA=does NOT take friction into account (uses distances).

Equation:

Mechanical Advantage (MA)=  $\frac{\text{output force}}{\text{input force}}$

EX: What is the mechanical advantage of a lever that requires an input force of 20 N and lifts an object that weighs 60 N?

Mechanical Advantage (MA)=  $\frac{\text{output force } 60 \text{ N}}{\text{input force } 20 \text{ N}}$  MA= 3

## Answers Mechanical Advantage And Efficiency

**Chandan Sengupta**

## Answers Mechanical Advantage And Efficiency:

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