## Note Taking Guide - Episode 604 - Part 1

Mechanical Advantage -
equation: M.A. = ——
The greater the M.A. of a machine, the it is to operate.
In ideal machines, work = work Real machines are not this efficient
Efficiency-
equation: Eff =X
Machines cannot be 100% efficient:  Work done to overcome is changed into
• The heat goes
• Friction is a force.
• As M.A. increases, the Eff of a machine
Loss of efficiency is due to
Problem Set #1 (1a-d): (on back)
Power -
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A box weighing 580 N is lifted 22 m straight up in 15 s by a machine. What is the

A box weighing  $580 \, \text{N}$  is lifted  $22 \, \text{m}$  straight up in  $15 \, \text{s}$  by a machine. What is the power of the machine?