

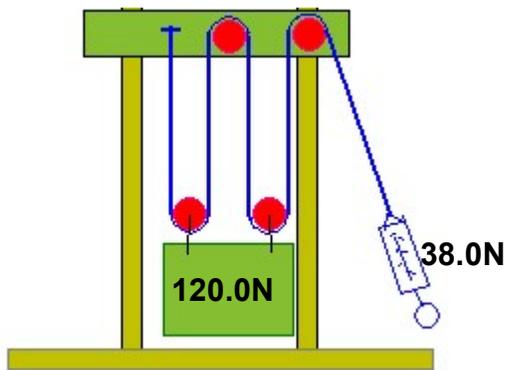
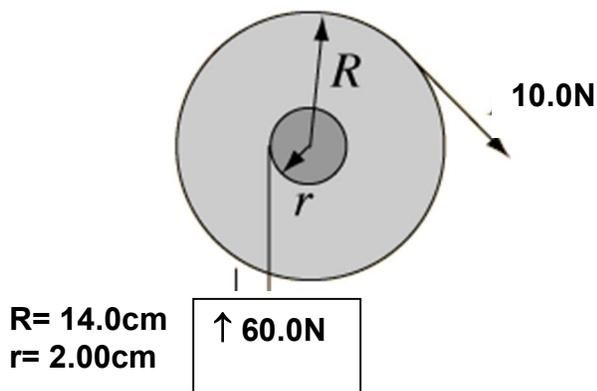
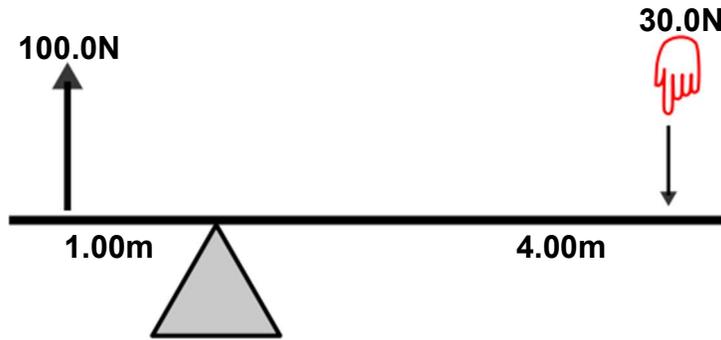
(Force moved) ÷ (Force applied) = AMA
AMA ÷ IMA = % Efficiency
Egan

Name: _____
Dr.

403A 6SM Example Problems 24pts

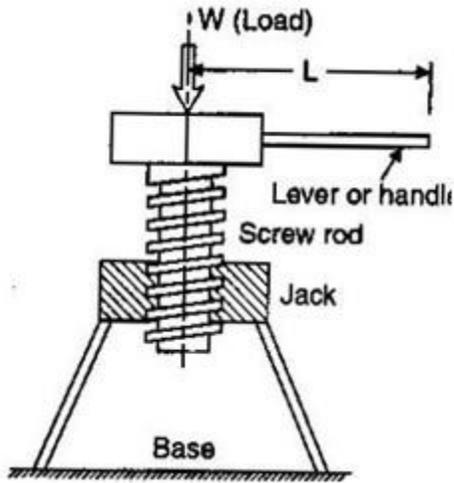
For each diagram

- 1pt Name the machine
- 1pt Determine Ideal Mechanical Advantage
- 1pt Determine Actual Mechanical Advantage
- 1pt Determine the efficiency of the machine



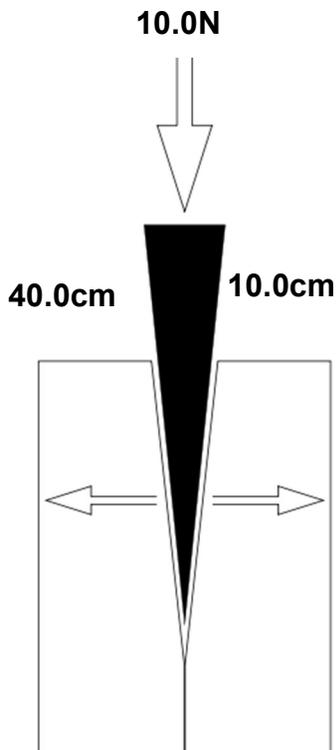
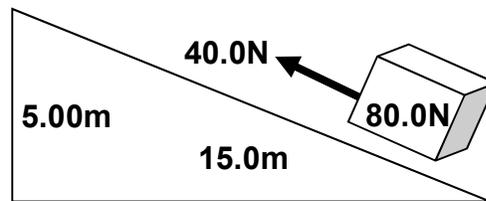
$(\text{Force moved}) \div (\text{Force applied}) = \text{AMA}$
 $\text{AMA} \div \text{IMA} = \% \text{ Efficiency}$
 Egan

Name: _____ Dr.



The screw-jack lifts 301N using 27.0N of force, what is the AMA and % efficiency?

Handle length is 0.100m
 Pitch = 0.05m



30.0N
 Total separation