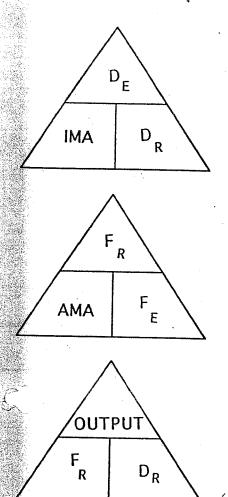
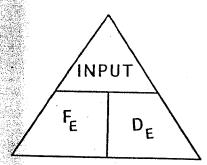
JON EQUATION SHEET





EFFICIENCY= $\frac{AMA}{IMA} \times 100 = \frac{OUTPUT}{INPUT} \times 100$

AMA - ALWAYS LESS THAN IMA OUTPUT - ALWAYS LESS THAN INPUT

Mechanica Advantage (MA) and Efficiency Practice Problems Draw your Triangles!

1. What is the mechanical advantage when a force of 8 N is applied to a machine that exerts a force of 24 N?

Formula

Set-up

Answer/Units

2. What is the force applied on a machine that has a mechanical advantage of 2 and a resistance or output force of 6 N? Answer/Units

Set-up

Formula

3N

3. Calculate the efficiency of a machine that moves a 540 N object a distance of 4 m and has an input work of 3,000 J?

Formula

Answer/Units

7290

4. What is the output work of a machine that is 56% efficient when a 9N force is applied over a distance of 6 m?

Formula

Set-up

Answer/Units

.56 x(9Nx6m)

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	Draw your Triangles!	_
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	exerts a force of 24 N?	and the state of t
<u>Formula</u>	Set-up	Answer/Units
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distance of 4 m and har Formula 4. What is the output voluce is applied over a	as an input work of 3,000 J Set-up work of a machine that is 5	Answer/Units
distance of 4 m and har Formula 4. What is the output of the force is applied over a Formula	s an input work of 3,000 J Set-up work of a machine that is 5 distance of 6 m?	Answer/Units 7

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Name	Date	
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1. What is the MA	of a machine that	has an output force of 10 N and
an input force of Formula		A second of The "A se
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2 What is the output	force of a maching	with an input force of 2 N and a
MA of 4 N?	ioree of a macmine	with an input force of 2 in and a
<u>Formula</u>	Set-up	Answer/Units
	4,2	
3. Calculate the efficie	ncy of a machine	with an output work of 5 J and Answer/Units
an input work of 6 J.	·	•
Formula	Set-up	Answer/Units
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		that as an output work of 10 J
and an input work of 1		
<u>Formula</u>	Set-up	Answer/Units

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