



	MECHANICAL	ADVANTAGE AND EFFICIEN	CY
The IMA of cert	ain machines can be m	odified as follows: Ex.	IMA
Wheel and Axle	Ratio of the Radii, $\frac{r_E}{r_L}$	Axle radius = 0.3 cm Wheel radius = 1.5 cm Wheel	
Gears	Ratio of the teeth count, $\frac{N_E}{N_L}$	+ + 60 Teeth 30 Teeth	
Pulleys	The number of support strands (ones that pull up)		
Inclined Plane	<u>Length of inclined plane</u> Height	10 metres	

Λ¢	PHYSICS
	MECHANICAL ADVANTAGE AND EFFICIENCY
the end of the the plank, 3.1	on jumps on one end of a plank creating an effort force of 920 N at board 1.7 m from the fulcrum. A rock, located on the other end of m from the fulcrum is catapulted with a load force of 460 N ate the AMA of the board
b) Calcul	ate the IMA of the board



