

NAME:	PERIOD:	DATE:
Simple Machines Homework #2		
Answer all questions to the best of your ability. Use your notes to help. Be specific. Be scientific.		
1. What is the mechanical advanta	ge of the lever below?	3 meters
Show your work.		1.5 meters
2. I have a crowbar with a mechanical advantage of 5. I have to pry a nail out of a board. It will take a force of 100 to pull out the nail. How much force do I need to put into the crowbar to get the nail out of the board?		
Show your work.		
3. After showing how you found the from least to greatest mechanical	neir mechanical advantage, arrange advantage.	these simple machines in order
A. A wheel and axle where the wh	eel is 10cm and the axle is 2 cm.	wheel
Show your work.		THE WHEEL AND AXLE IS A WHEEL CONNECTED TO A RIGID POLE.
B. An inclined plane with a slope of	f 10cm and a height of 5cm.	
Show your work.		
C. A single pulley. Tell what it is and why.		

Arrange them from least to greatest mechanical advantage here: