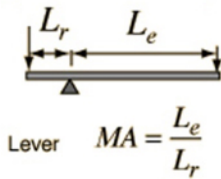
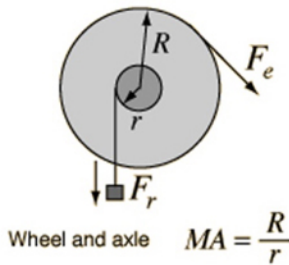


Name: _____

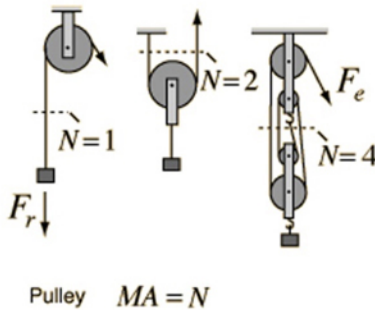
Mechanical Advantage of Simple Machines



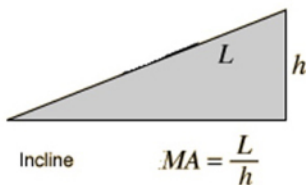
MA- Lever
 $MA = \frac{\text{length of effort}}{\text{length of resistance}}$



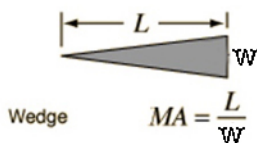
MA- Wheel and Axle
 $MA = \frac{\text{radius of wheel}}{\text{radius of axle}}$



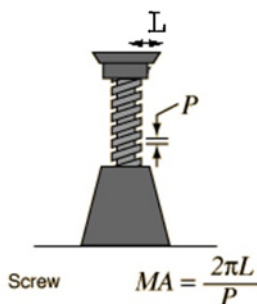
MA- Pulleys
 $MA = \text{number of ropes or chains supporting the load.}$
 (count the string you pull on if you pull up. Do NOT count the string you pull on if you pull down).



MA- Inclined Plane
 $MA = \frac{\text{length of slope}}{\text{height of inclined plane}}$



MA- Wedge
 $MA = \frac{\text{length of wedge}}{\text{width of wedge.}}$



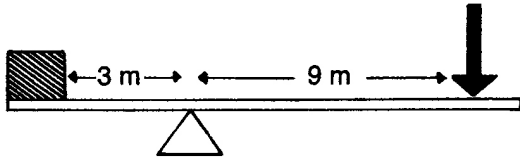
MA- Screw
 $MA = \frac{2\pi L \text{ (L=radius of screw head surface)}}{P \text{ (distance between threads)}}$

MECHANICAL ADVANTAGE

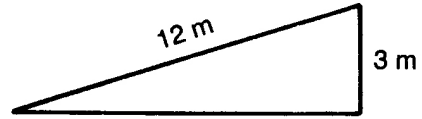
Name _____

What is the mechanical advantage of the following simple machines?

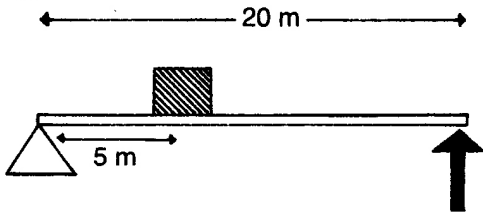
1.



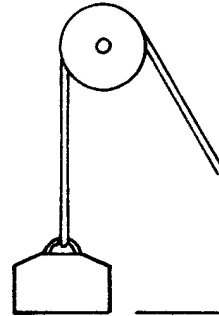
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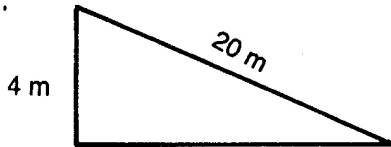
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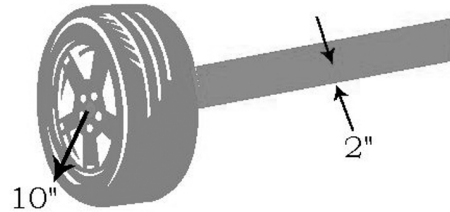
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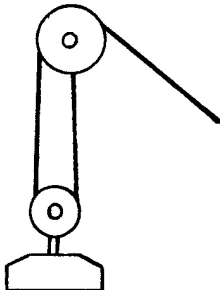
5.



6.



7.



8.

