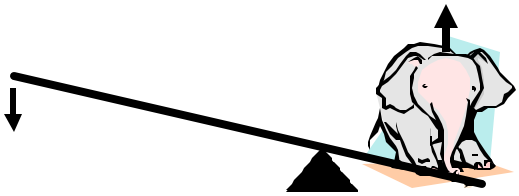
Name: _____

Period: _____

HW—4:2 — Simple Machines
Mr. Murray, IPC
www.aisd.net/smurray

Assigned: Tues., 2/10/04
Due: Thurs., 2/12/04



What class of lever is this?

Label on the picture these five things:
F_{in}; F_{out}; D_E; D_R; fulcrum

Will this lever increase or decrease force?

Input or Output Force?
____ A lever applies 40 N of force.
____ You pull with 10 Newtons.
____ You lift a 20 N rock with a lever.
Distance of Effort or Resistance?
____ how far down you pull the lever.
____ how far up the object moves
____ From the fulcrum to the object.

You pull on the lever 60 cm from the fulcrum. The object is 10 cm from the fulcrum. Find the MA.
Fout =
Fin =
Equation =
Answer =

Work on back

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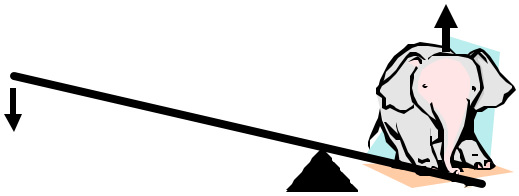

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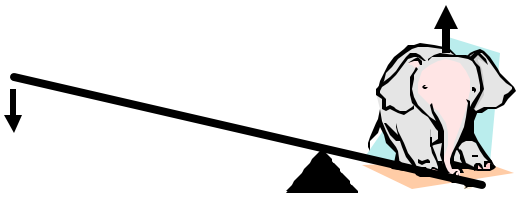

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Work on back

Name: _____

Period: _____

Don't forget the front side

HW 4:1

Draw a third class lever. Show input and output forces and fulcrum.

You apply 20 N of force to a lever. The MA is 0.5. How much can you lift?
Fout = Fin = Equation = Answer =

Name: _____

Period: _____

Don't forget the front side

HW 4:1

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Name: _____

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