Name: _

Period:

HW Unit 7:6 — Levers, Pulleys, Incline Planes Mr. Murray, IPC cstephenmurray.com

Assigned: Mon., 2/5 and Tues., 2/6 Due: Wed., 2/7 and Thurs., 2/8

1) Label Fin, Fout, DE, and DR for pulley A, below.



- 3) How many support ropes does pulley A have?
- 4) How many support ropes does pulley B have?
- 5) Which pulley multiplies your force more?
- 6) Which pulley has a greater output?

- 7) Where do pulleys lose energy?
- 8) Where do levers lose energy?
- 9) Where do ramps lose energy?

10)What do we call the pivot point of a lever?

- 11)Input or Output?
- A) ____ How much you push down on a lever.
- B) ____ Distance from the fulcrum to the object.
- C) ____ Length of a ramp.
- D) ____ Distance the object lifts up.
- E) ____ How much force the lever applies to the object.
- F) ____ How much force the pulleys pull on the object.

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- 19)If a 20 kg object is accelerating 3 m/s² to the left, calculate the net force on the object.
 - 20)If the net force on an object is 12 N to the right and there is a 4 N object pulling to the left, find any other forces on the object.
 - 21)An unbalanced force pulls on an object, what happens?

22)What happens when the unbalanced force stops?

12)When I used the giant lever, which was the input side: me or the person I lifted?

13)Which moved more: my hand or the person I lifted?14)So, did the lever increase or decrease my force?15)How does a simple machine make work easier?

16)Label D_E and D_R on the ramp below.



17)Label Fin and Fout.

18)If the object is 20 N, how much force will you have to use to pull the object up the ramp?