Period:

If you remember this saying you can understand and solve almost every simple machine problem:

"You put effort in;" -

- goes with the F_{in} (force in).
- goes with the Fout (force out).

"You put *effort in*; you get *resistance out*. The *object* is the *output*."



We now know this:

 $F_{out} = 200 N$ $D_R = 2 m$

 $F_{in} = 60 N$

 $D_{\rm E} = 10 \, {\rm m}$

Fout

 D_R

 $D_{\rm E}$

 D_R

Eff = 67%

(33% was lost as friction)

 D_E