Work Practice Sheet

a. When pushing a 1000 N car 10 m. Yes
with lake the car mules a set distance.

Yes, trucked distance up.

No, wo distance handled.

1. Is the person doing work? Give reasoning for your answer.

b. Lifting a rock off the ground.

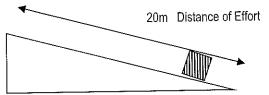
c. Holding a book in your hands.

d. Pushing hard on a brick wall.

Therefore

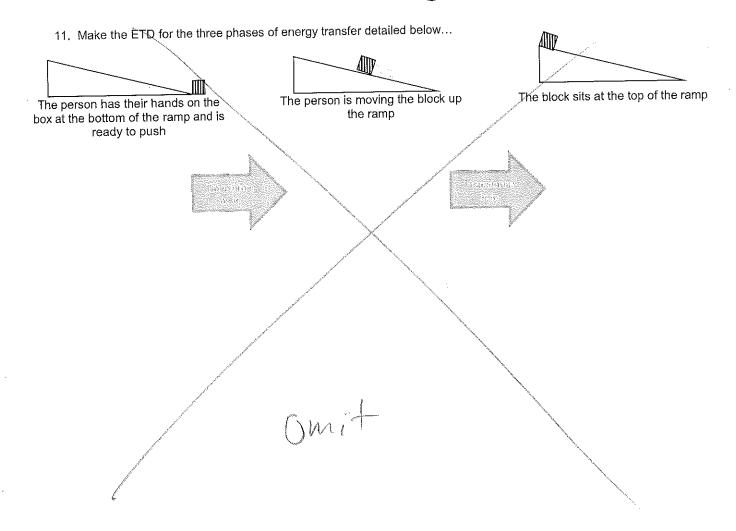
	No, no distance traveled
Directions: Use the formula $W = F \times D$ to solve the following problems. Show work and use proper units.	
2.	How much work is done when a 5 N force moves a block 4 m?
	5 x y = (20 Joules)
3.	How much work is done when a 100 N force moves a block 59 m?
	100 ×59 = [5900 J]
4.	Fred applies 350 N of force to move his stalled car 40 m, how much work did Fred do?
	350 × 40 = [1400 5]
5.	You move a 25 N object 5 m. How much work did you do?
6.	You carry a 20 N bag of dog food up a 6 m flight of stairs. How much work did you do?
	(1205)
7.	How much energy do you give a 200N couch if you push it 35 meters?
	200 N x 35 m = [7000 J]
8.	How much energy do you give a sumo wrestler if you push him with all your might (150N worth of force) for 1 hour and he does not move at all?
	$150 \text{ W} \times 0 = 65$
9.	Which is more work, pushing with 115 N over 15 m or lifting 20 N 10 m?
	115 × 15: 1725 > Pushing is neve work.
	20×10== 200 J

Consider a 10 kg mass sitting on the ramp shown below then use the following diagram for question 10-11



10. If it takes 25 N of force to slide the box on the ramp, how much work will it take to slide the box up the ramp?

25 x 20= 1500 N



"The greatest weapon against stress is our ability to choose one thought over another." – William James