W=MaDS -> m= W	
WORK-ENERGY PROBLEM WORKSHEST 1. The third floor of a house is 8 m above street level. How much work is needed to move a 150 kg	
w=F65=W05=mq05 LISM()(8m(c)(8h)=(7
2. If Stan does 176 J of work fifting himself 0.30 m, what is Stan's mass? Stan's mass? Stan's mass?	4
3. Lee pushes a 20 kg box 10 m across the floor with a horizontal force of 80 N. How much work does Lee do? Lee do?	
4. Sau-Lan, with a mass of 52 kg, rides the up escalator at Ocean Park in Hong Kong, the world's longest.	5
If the escalator has a length of 227 m and angle of 31°, calculate the work done by the escalator to lift Sau-Lan. Sau-Lan. W=FAS=	MAS
5. A librarian lifts a 2.2 kg book from the floor to a height of 1.25 m, carries the book 8.0 m to the stacks, and places the book on a shelf 0.35 m above the floor. How much work is done on the book?	/ M
W=PE=mgL = (5)hg/ 6. A horizontal force of 805 N is needed to drag a crate across the floor with a constant speed. If the rope	9.63
used to drag the crate makes an angle of 32° with the floor: a. Calculate the force applied along the rope.	3)
b. Calculate the work done to pull the crafe a distance of 22m.	
c. If the job is done in 8 seconds, how much power is developed?	
7. Mary weighs 505 N. If she walks down a flight of stairs to a level 5.5 m below, what is the change in her potential energy?	5
8. Toni has a mass of 45 kg and is moving with a speed of 10 m/s.	
KE= a. Calculate her kinetic energy. (45 kg) (10m/s)	
b. If Toni's speed changes to 5 m/s, what is her kinetic energy? Compare to part a answer	

