WORKSHEET #1

	1	lame:
1.	. How much work is done on a 55 N package you carry horizontally for a dist	ance of 12 m?
2.	. How much work is done on a 625 N rock that you lift 0.85 m?	
3.	. You apply a 225 N force to a heavy crate with a rope that makes a 27.0° ar you pull the crate a distance of 3.50 m, how much work was done?	ngle with the horizontal, if
4.	You pull a 55.5 kg wooden box with a rope that makes a 28.0° angle with the speed. The coefficient of kinetic friction between the box and the deck is 0 distance of 2.25 m. How much work was done?	

5.	5. A bear with a mass of 218 kg runs up a hill. At energy. How high was the hill?	the top of the hill, she has gained 23.5 kJ of potential
6.		m/s at an angle of 43.0° to the horizontal. (a) How ially released? (b) What is its kinetic energy at the it travel in the horizontal direction?
7.		speed of 240.0 m/s. (a) Find the bullet's kinetic energy, by the expanding gases as the bullet moves through

8. Three blocks of masses 1.0, 2.0, and 4.0 kilograms are connected by massless strings, one of which passes over a frictionless pulley of negligible mass, as shown below. Calculate each of the following: (a) The acceleration of the 4.0 kilogram block. (b) The tension in the string supporting the 4.0 kilogram block. (c) The tension in the string connected to the 1.0 kilogram block.

