	Question	ork, Energy and Power Worksheet	Name:
VVOLK	Question	15.	
1.		oat pulls a ship with a constant net horizontal force of work is done on the ship if it moves a distance of 3.00	f 5.00 x 10 ³ N and causes the ship to move through a harbor. How km?
2.	A shop the wo	oper in a supermarket pushes a cart with a force of 35 rk done by the shopper on the cart as the shopper mo	N directed at an angle of 25° downward from the horizontal. Find wes along a 50.0 m length of aisle.
3.	If 2.0 J	of work is done in raising a 180 g apple, how far is i	t lifted?
4.	For each of the following cases, indicate whether the work done on the second object in each example will have a positive or negative value.		
	a.	The road exerts a friction force on a speeding car s	kidding to a stop.
	b.	A rope exerts a force on a bucket as the bucket is r	aised up a well.
	с.	Air exerts a force on a parachute as the parachutist	falls to Earth.
Kineti	c Energy	Questions:	
5.	Tatle et i	s the speed of a 0.145 kg baseball if its kinetic energe	ie 100 T2

- 6. Two 3.0 g bullets are fired with speeds of 40.0 m/s and 80.0 m/s respectively. What are their kinetic energies? Which bullet has more kinetic energy? What is the ratio of their kinetic energies?
- 7. A car has a kinetic energy of 4.32 x 105 J when traveling at a speed of 23 m/s. What is its mass?

Work-Kinetic Energy Theorem Questions:

A student wearing frictionless roller skates on a horizontal surface is pushed by a friend with a constant force of 45 N. How
far must the student be pushed, starting from rest, so that her final kinetic energy is 352 J?