CULATING FORCE WORKSHEET ulate the force in the following prob e = mass x acceleration F = m x a ure to (1) ALWAYS write the equati the correct units. ersion factor - (1000 grams equals 1k	on, (2) plug in	·	_
re = mass x acceleration F = m x a ure to (1) ALWAYS write the equating the correct units.	on, (2) plug in	·	_
		ram = .001 kilog	(Disregard friction)
A man hits a golf ball (0.042kg) whic acted on the ball?	h accelerates c	nt a rate of 20 m	n/s². What amount of force
5		-	-
			_
You push a friend sitting on a swing. Find the force you exerted.	She has a mass	of 50 kg and ac	ccelerates at a rate of 4 m/s².
•	-	er friend who ho	as a mass of 70 kg to
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	You give a shopping cart a shove dow to the cart accelerates at a rate of the wind pushes a paper cup along the cartes at a rate of 5 m/s². How would be compared to the force you exerted.	A man hits a golf ball (0.042kg) which accelerates of acted on the ball? You give a shopping cart a shove down the aisle. The kg. The cart accelerates at a rate of 3 m/s². How refer the wind pushes a paper cup along the sand at a beauccelerates at a rate of 5 m/s². How much force is accelerates at a rate of 5 m/s². How much force is a friend sitting on a swing. She has a mass find the force you exerted.	A man hits a golf ball (0.042kg) which accelerates at a rate of 20 marched on the ball? You give a shopping cart a shove down the aisle. The cart is full of a kg. The cart accelerates at a rate of 3 m/s². How much force did y with the wind pushes a paper cup along the sand at a beach. The cup has accelerates at a rate of 5 m/s². How much force is the wind exert of 5 m/s². How much force is the wind exert of 5 m/s². She has a mass of 50 kg and accelerate of 5 m/s². She has a mass of 50 kg and accelerate of 5 m/s². How much force would it take to push another, larger friend who have much force would it take to push another, larger friend who have

6.	A worker drops his hammer off the roof of a house. The hammer has a mass of 2500g. Gravity accelerates objects on earth at $9.8~\text{m/s}^2$. How much force does the earth apply to the hammer?
7.	A boy skips a stone (2.5grams) across the surface of a pond. He throws the stone with 5 newton of force. What was the stone's acceleration?
8.	A woman hits a golf ball with a mass of (45g) with a force of 5 newton. What is the acceleration rate of the ball?
9.	You give a shopping cart a shove down the second isle. The cart is full of groceries and has a mass of 18 kg. You apply 55N of force. What is the acceleration for the cart full of groceries?
10.	You push your friend again sitting on a swing with 200N of force. She accelerates at a rate of 5 m/s 2 . What is the friend's mass?
11.	A boy drops his toy off the bunk bed. The distance to the floor is 2.5m. It takes one second to reach the floor. Gravity accelerates objects on earth at 9.8 m/s^2 . The earth's gravity applies 50 newton of force to the toy? What is the toy's mass?
12.	Children playing race match box cars across the floor. One car has a final velocity of 5m/s. From start to finish the race is only a second. The mass of the car 4grams. How hard did the child push the car?