Name:

Period:

Chapter 3 and 4 Review

Covering worksheets 3:1 - 3:3; 4:1 - 4:3,

Ch.4:4

1. F or $F_w =$			8		Write in the following formulas		
2. m =			30 m		Force	Weight	Momentum
3. MA =			13 1	kgm/s	(Newton's 2nd Law)		
4. v =	4. v =			m/s			
5.D=			15	2 kg			
6. p=			90 N				
 Inertia A. Ability of an objection; dependent Mass Gravity B. Motion is always C. The amount of mathematical section is an experimental section. 			ect to resist change of nt on mass. s caused by this. natter in an object		Conservation of Momentum (left and right)	Mechanical Advantage (using force)	Mechanical Advantage (using distances)
4. Net force D. Force that attract ward each other.			s any two masses to-				
5. Force	5. Force E. Total of all of the f			an object.	Which of Newton's Three Laws Applies?		
Numbe	er these from	m most (1) to	least (5) ine	ertia.	A heavier animal has to use more muscle to speed up.		
A cat	A horse	horse A person		A whale	A paddle-wheel boat pushes on the water and the water		
					Fighter pilots feel maging amounts of force when their		
		. (1) . 1	(7)		 A rolling ball hits your leg hard to stop. 		
Number	these from i	most (1) to le	east (5) mom	entum.			
Fast car	t car Fast Fast pl truck		Fast hammer	A mountain	You push on the wall and you don't move.		
35 N is pulling the net force ()	g to the left remember t	and friction of o show direc	opposes with tion).	15 N. Find	If a person is pushing 9 Newtons and it acc cart?	g a cart with a force of elerates at 0.5 m/s^2 , w	hat is the mass of the
If 40 N is pushing to the right and friction is 10 N, find the acceleration and direction of a 6 kg object.					Using $g = 10 \text{ m/s}^2$, find the weight of a 3 kg mass.		
A 35 kg bike accelerates at 5 m/s ² . With what force was the person pedaling?					What is the mass of a	a 45 N object?	

Period:_____

 Weight Equilibrium Mass Heat g Name the six simple If gravity and air frequilibrium? Are to 	 A. When all forces on an object are balanced. B. The force of gravity on an object. C. The acceleration of gravity. D. The a product of friction. E. The measure of the matter in an object. de machines: 	 Rolling friction Air friction Air friction Viscous friction Sliding friction Sliding friction Friction Resistance of air pushing against an object. Resistance of two objects pushing against each other. Any force that resists motion. Resistance of a wheel. Identify these levers as first, second, or third class: Pliers: Bat. Nutcracker.		
A 5 kg ball is throw A car going 30 m/s mass.	vn 11 m/s. Find momentum.	You use a 25 m incline plane to raise a cart up 5 m. Find the MA of the ramp. Your pulley system has 4 support ropes. You can pull down with 7 N of force. How much can you lift?		
A 30 kg girl throws 3 m/s to the right.	s a 2 kg ball to the left. The girl ends up going Find the ball's velocity.	A lever with a MA of 6 lifts a crate up 3 cm. How far do you have to pull down the lever?		
Using a pulley you of the pulley AND	use 4 N to pull up a 24 N crate. Find the MA how many support ropes does it have?	Using a lever you pull down 6 m to lift a rock up 2 m. If you pull down with 8 N, how much does the rock weigh?		