Na	ıme		Date	
Honors Physics Period				Momentum WS #1 Mrs. Nadworny
		N	Nomentum	
		textbook pages 207 – nificant figures. Be sui	214. Solve the following pre to show ALL work.	problems using the GUESS
1.	The magnitude of the momentum of an object is 64.0 kilogram-meter per second. If the velocity of the object is doubled, the magnitude of the momentum will be			
	A) $32.0 \frac{kg \cdot m}{s}$	B) 64.0 ^{kg⋅m} / _s	C) 128 \frac{kg \cdot m}{s}	D) 256 \(\frac{kg \cdot m}{s}\)
2.	A 0.0600 kilogram ball traveling at 60.0 meters per second hits a concrete wall. What speed must a 0.0100 kilogram bullet have in order to hit the wall with the same magnitude of momentum as the ball?			
	A) 3.60 m/s	B) 6.00 m/s	C) 360. m/s	D) 600. m/s
3.	At the same time, 8 kilograms of feathers and 6 kilograms of lead are dropped from a height of three meters. a. After they have fallen 1 meter, the 6 kilograms of lead has A) Less mass and less inertia B) Less mess and the same inertia C) More mass and less inertia D) More mass and the same inertia b. After they have fallen 1 meter, the 6 kilograms of lead has A) Less speed and less momentum B) Less speed and the same momentum C) The same speed and the same momentum D) The same speed and the same momentum			
4.	A 6.2 kg duck is flying around the pond. It has a momentum of 30.7 kg·m/s. What is the duck's speed?			
5.	A 5.00 kilogram block slides along a horizontal, frictionless surface at 10.0 meters per second for 4.00 seconds. Calculate the magnitude of the block's momentum.			
6.	_		elocity of 40. meters per se alculate the size of the mass	