IMPULSE AND MOMENTUM		Name	
1.	Calvin is walking down the street at 4.0km/hr. (Caution: watch units!)	If he has a mass of 70. Kg, what is his momentum?	
2.	How fast must a 20.0kg child be moving on he traveling at 2.00m/s?	r tricycle to have the same momentum as a 1.20 x 10 ³ kg car	
3.	On April 15, 1912; the luxury cruise liner Titani A) What momentum would the 4.23 x with a speed of 11.6m/s? (In reality it	10 ⁸ kg ship have imparted to the iceberg if it hit it head on	
	B) If the captain of the ship had seen t use the idea of impulse to explain why	he iceberg a kilometer ahead and had tried to slow down, would this have been a futile effort?	
4.	the integrity of the passenger compartment. If	utomobiles by putting them through crash test to observe a 1.00 x 10 ² kg car is sent towards a cement wall with a r in 8.00 x 10 ⁻² s; with what force was it brought to rest?	

5.	A 1.0×10^4 kg freight car is rolling along a track at 3.0 m/s. Calculate the time needed for a force of 1.0×10^2 N to stop the car.
6.	Rhonda, who has a mass of 60.0kg, is riding at 35.0m/s in her sports car when she must suddenly slam on the brakes to avoid hitting a dog crossing the road. She is wearing her seat belt, which brings her to a stop in 0.400s. A) What force was produced by the seatbelt on Rhonda?
	B) If she had not been wearing her seatbelt, and the windshield had stopped her head in 1.00×10^{-3} s, what force would the windshield have produced on her head?
	C) How many times greater is the stopping force of he windshield than the seatbelt?
Durin	A CREDIT g an autumn storm, a 1.00kg hail stone traveling at 20.0m/s made a 0.200cm deep dent in the hood of 's new car. What average force did the car hood exert to stop the damaging hail stone?