

Name: _____

Date: _____

Period: _____

Forces in an Auto Accident

1. Calculate the amount of force created when a 1200kg car accelerates at 30m/s^2 . Show your Math.
2. Let's assume that the same car above slams on its breaks and decelerates at 45m/s^2 . How much force do the breaks apply to the car? Show your Math.
3. If the amount of force created above is applied to a 3500kg truck during a collision, what will be the truck's acceleration during that collision? Show your Math.
4. Inside the truck is a 65kg driver who will accelerate at the same rate as the truck. What amount of force is being applied to him? Show Your Math.
5. A force of 1000N will cause serious injury to a person in a car accident. What happens to the truck driver? _____
