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Momentum and impulse worksheet key

Who has more momentum, a 3989 pound car traveling at 55 mph or a 28,000 kg truck traveling at 1.5 m/s? Show how you set your answer. To solve, first convert all units into SI units. The car's mass is: $m = (3989 \text{ lbs}) (0.454 \text{ kg}) / (1 \text{ lb}) = 1811 \text{ kg}$ [math]. The speed of the car is: $v = (55 \text{ mph}) (1,609 \text{ m}) / (1 \text{ mile}) / (1 \text{ hour}) / (3,600 \text{ s}) = 24.58 \text{ m/s}$. Therefore, the momentum of the car is: $p_{\text{car}} = m_{\text{car}} v_{\text{car}} = (1,811 \text{ kg}) (24.58 \text{ m/s}) = 44514 \text{ N}$. The momentum of the truck is: $p_{\text{truck}} = m_{\text{truck}} v_{\text{truck}} = (28,000 \text{ kg}) (1.5 \text{ m/s}) = 42,000 \text{ N}$. The car, therefore, has more momentum. Momentum Boost Cheating Paper Momentum Momentum is a physical concept known as a moving object. In other words to talk about the momentum we must have a moving object, it must be both mass and speed. Let me work on what we have said; Momentum = speed x mass = $m \cdot P$. Where P is momentum and m is a block. The unit of momentum is $\text{kg} \cdot \text{m/s}$ as you can guess from the equation. Batch If you apply force to object 1 s, then you see a small change in momentum. However, if you apply force to an object for a long period of time then you see a greater amount of change in momentum than the first position. In short, I try to say that the motivation is to double the power applied and the interval it has applied. The motivation is also the amount of vectors have both size and direction. It has the same direction with applied net strength. Batch = Force \cdot Time Interval Motivation and momentum are directly related to each other. Let's find out this relationship now. Boost = change in momentum Keeping the momentum If there is no force applied to the system, the momentum of the system is maintained in terms of size and direction. Benítez = $P_{\text{final}} m_1$. $V_1 = M_2$. V_2 Collisions Momentum is maintained in all collisions. If objects collide the momentum and kinetic energy of objects is maintained from what we call this flexible collision collision. On the other hand if the body's momentum is maintained but the kinetic energy of what we call this type of collision is inflexible. In summary, we can say that, the momentum of the system is maintained in both flexible but inflexible collisions. Kinetic energy is saved only in flexible collisions. Momentum exams and solutions Tags:

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