Kinetic Energy Practice

Physics and Mathematics of Sustainable Energy College of the Atlantic. September 17, 2024

1.	An 80 kg football player runs at 5 m/s. What is his kinetic energy?
2.	A 120 pound hockey player skates at 8 m/s. What is her kinetic energy?
3.	An 8000 pound bus travels at 40 mi/hr. What is the kinetic energy of the bus? Answer in Joules and MegaJoules.
4.	A 1kg brick of tofu has a speed of 10 m/s. What is its kinetic energy? If the same brick of tofu had a speed of 20 m/s, what would its kinetic energy be?
5.	A small car moving at a certain speed has a kinetic of 50,000 J. What would the car's kinetic energy be if it doubled its speed? What would the cars kinetic energy be if it doubled its mass?
6.	A 145 g baseball is thrown at 100 mi/hr. What is the baseball's kinetic energy?