

Kinetic Energy Problem Set

Kinetic Energy (K_E) = $\frac{1}{2}mv^2$ [m = mass, v = speed]

Be sure to substitute $\text{kg} \cdot \text{m}^2/\text{s}^2$ for Joules [1:1 ratio]

1. A 54.43 kg (m) Olympic diver dives off a 10-m platform and reaches a speed (v) of 15.6 m/s. What is her kinetic energy (K_E) in J upon impact of the pool water?
2. A pick-up truck barrels down a highway with a speed (v) of 27.1 m/s and has a kinetic energy (K_E) of 326,280 J , what is the mass (m) in kg of the pick-up?
3. A standard-sized 0.030 kg (m) blue, orange tipped NERF bullet hits your opponent with 2.94 J of kinetic energy (K_E). At what velocity (v) in m/s did the NERF bullet impact your opponent?
4. If a 113 kg (m) linebacker collides into a tackling dummy with a proper form tackle with a speed of 4.1 m/s (v), what was the kinetic energy (K_E) in J upon impact?
5. An all-star catcher snares a 0.145 kg (m) baseball that collided into the mitt with 117.35 J (K_E) of energy. At what velocity (v) in m/s did the baseball travel upon impact toward the catcher?

Kinetic Potential Energy Problems Answer Key

Terry C. Jones



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