

# 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 Energy Worksheet Answers

**Rosina Ehmann**



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