# **Kinetic Energy Problem Set**

Kinetic Energy (Kz) =  $\frac{1}{5}$ mv<sup>2</sup> [m = mass, v = speed] Be sure to substitute kg·m<sup>2</sup>/s<sup>2</sup> 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  $(K_z)$  in J upon impact of the pool water?

A pick-up truck barrels down a highway with a speed (v) of 27.1 m/s and has a kinetic energy (Kr) 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 (Kg). 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 (Kg) in J upon impact?

 An all-star catcher snares a 0.145 kg (m) baseball that collided into the mitt with 117.35 J (Kz) of energy. At what velocity (v) in m/s did the baseball travel upon impact toward the catcher?

# **Kinetic Potential Energy Problems Answer Key**

J Rink

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