HWU3-2

QUESTION:

A 1577 kg car is traveling down the road at 81.0 km/h. While traveling at this rate of speed, what is the kinetic energy of this vehicle in kilojoules?

Answer: \_\_\_\_\_\_\_\_\_\_ kJ

HINT:

Kinetic energy can be found using the formula

$$E\_{k}= \frac{1}{2}mv^{2}$$

where *Ek* is kinetic energy in joules, *m* is the mass in kilograms, and *v* is the velocity in meters per second. Pay attention to units!