

**Bell Ringer 10: PE and KE Calculations**

1. A baby carriage is sitting at the top of a hill that is 21 m high. The carriage with the baby weighs 12 Kg. The carriage has \_\_\_\_\_\_\_\_\_\_\_\_ energy. Calculate it
2. A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car has \_\_\_\_\_\_\_\_\_\_\_energy. Calculate it.



1. What is the mechanical energy of the cart on the right at position A. The cart is not in motion. (height=15 m, mass = 12 kg, gravity = 10 m/s2 )?
2. What is the kinetic energy when the moving cart is 2/3 the way down (height=5 m) when the total mechanical energy is \_\_\_\_\_\_\_\_\_\_\_\_\_ (from previous question)?

**T**ODAY

**T.A.C. Sheet Unit Topic**: **MOTION** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 I **A**m

 So I **C**an