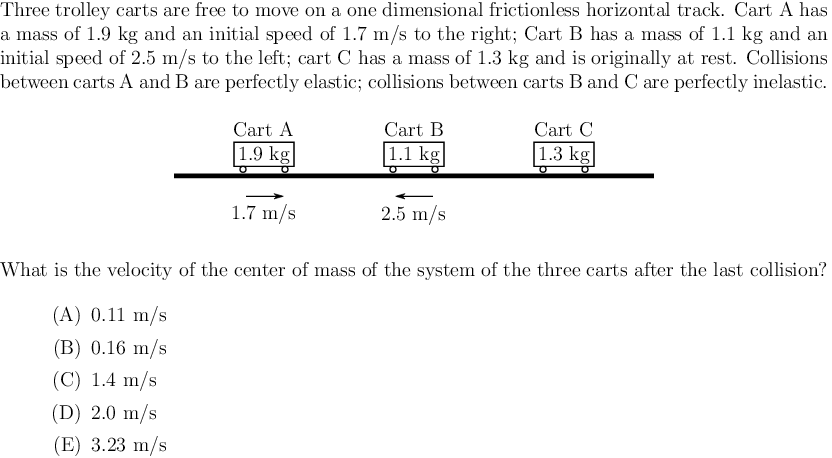
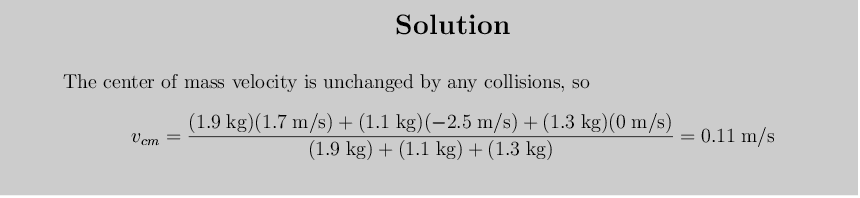
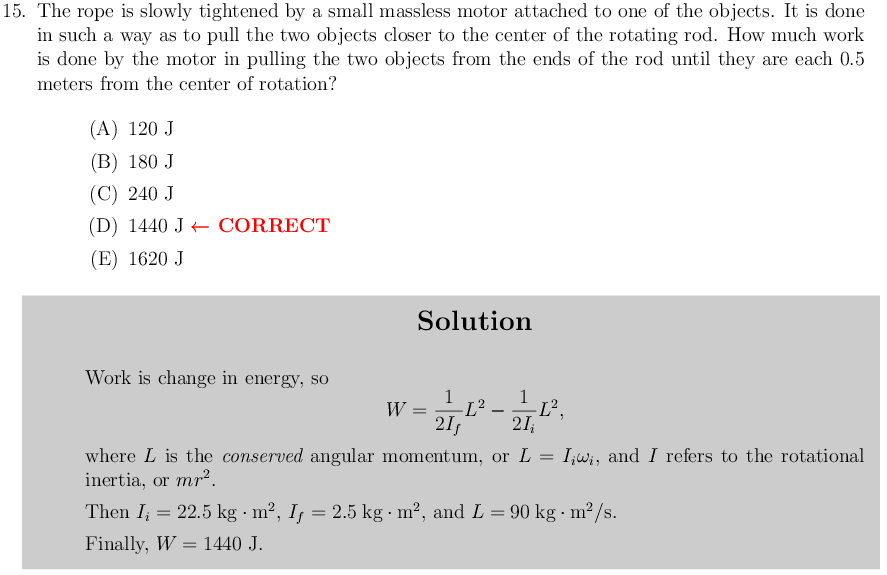


Using conservation of momentum. Since mass cancels, the new velocities are just ratios of the mass to the first velocity. mv0 = (am + bm + cm ….)v1





If momentum is conserved, then the velocity of the center of mass never changes. More on this in CCof Physics.



We cannot use ½ Iw^2 here. The conserved angular momentum must be used instead.   
  
   