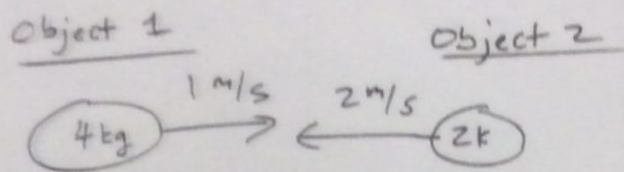


# Elastic Collisions

Name: \_\_\_\_\_



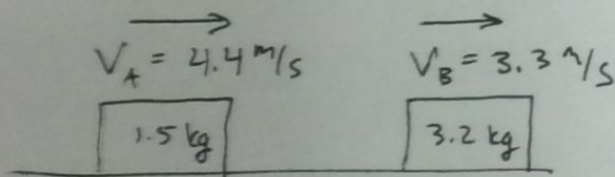
Conditions

1.)  $\vec{P}_i = \vec{P}_f$

2.)  $KE_i = KE_f$

#1. What are the final velocities of objects 1 & 2?  
 (Use conditions of conservation of momentum and KE)

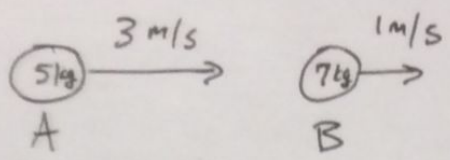
#2.



Use the coefficient of restitution:  $V_{Bf} - V_{Af} = \Delta V_0$   
 Assume no friction, total elastic.

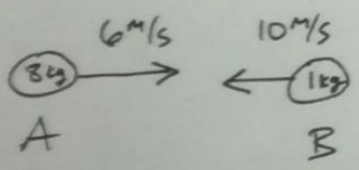
Find the velocities of each block after the collision.

# 3



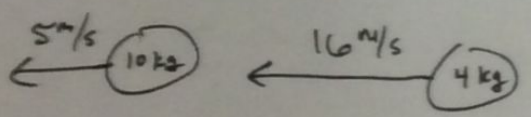
Find final velocities  
Elastic collision.

# 4



Find final velocities.  
Elastic collision.

# 5



Find final velocities.  
Elastic collision.