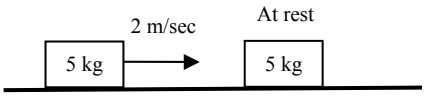
W7.02

MOMENTUM

Elastic Collisions

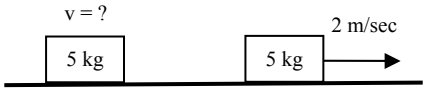
The masses below collide completely elastically. Assume that there is no friction. Diagrams on the left are before the collision. Diagrams on the right are after the collision.

1.



$p_{total\ initial}$ = _____

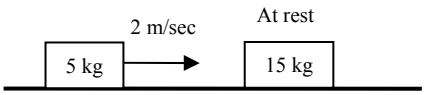
$KE_{total\ initial}$ = _____



$p_{total\ final}$ = _____ v = _____

$KE_{total\ final}$ = _____

2.



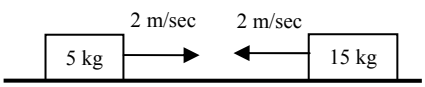
$p_{total\ initial}$ = _____

$KE_{total\ initial}$ = _____

$p_{total\ final}$ = _____ v = _____

$KE_{total\ final}$ = _____

3.



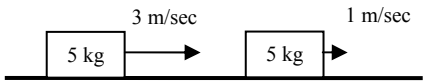
$p_{total\ initial}$ = _____

$KE_{total\ initial}$ = _____

$p_{total\ final}$ = _____ v = _____

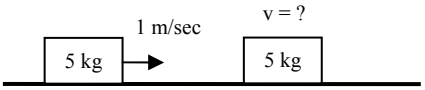
$KE_{total\ final}$ = _____

4.



$p_{total\ initial}$= _____

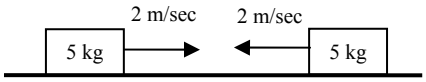
$KE_{total\ initial}$= _____



$p_{total\ final}$ = _____ v = _____

$KE_{total\ final}$= _____

5.



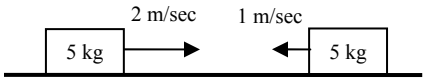
$p_{total\ initial}$= _____

$KE_{total\ initial}$= _____

$p_{total\ final}$ = _____ v = _____

$KE_{total\ final}$= _____

6.



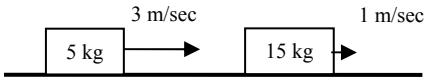
$p_{total\ initial}$= _____

$KE_{total\ initial}$= _____

$p_{total\ final}$ = _____ v = _____

$KE_{total\ final}$= _____

7.



$p_{total\ initial}$= _____

$KE_{total\ initial}$= _____

$p_{total\ final}$ = _____ v = _____

$KE_{total\ final}$= _____