

Conservation of Momentum – Examples

Name

1. Before collision:



They collide and bounce, then after collision:

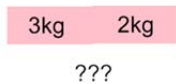


What is the speed and direction of the 5kg object after the collision?

2. Before collision:



They collide and stick, then after collision:

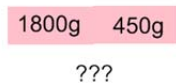


What is the speed and direction of the combined object after the collision?

3. Before collision:



They collide and stick, then after collision:

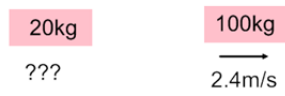


What is the speed and direction of the combined object after the collision?

4. Before collision:



They collide and bounce, then after collision:



What is the speed and direction of the 20kg object after the collision?

5. Before explosion:



An explosion pushes them apart, then:



What is the speed and direction of the 800kg object after the explosion?

6. Write your own question: