

Preflight 1 & 2

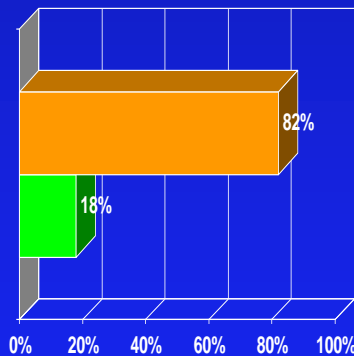
Is it possible for a system of two objects to have zero total momentum and zero total kinetic energy after colliding, if both objects were moving before the collision?

1. YES ← CORRECT

2. NO

“Two cars crashing in a perfect inelastic collision.”

“If two African laden swallows were flying towards each other with an equal magnitude of momentum, and they collided completely inelastically, becoming a monster two-headed African laden swallow, then the total kinetic energy after the collision is zero, and the sum of the momentums is also zero.”



Demo with gliders