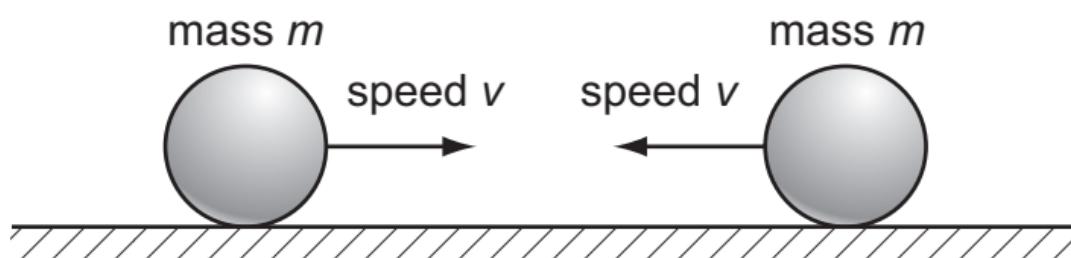


- 13 Two identical, perfectly elastic spheres have the same mass m . They travel towards each other with the same speed v along a horizontal frictionless surface.



Which statement about the sum of the kinetic energies of the spheres is correct?

- A The sum of their kinetic energies before impact is zero.
- B The sum of their kinetic energies before impact is $\frac{1}{2} mv^2$.
- C The sum of their kinetic energies after impact is zero.
- D The sum of their kinetic energies after impact is mv^2 .

- 14 A 1.2 kg mass is supported by a person's hand and two newton-meters as shown.