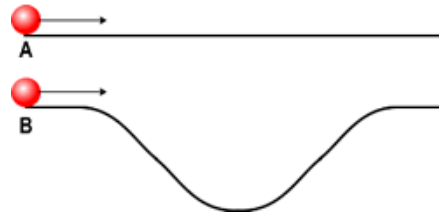


Two balls with the same initial speeds go down two tracks.

Note that track B does not have a straight section at the bottom. Now which ball reaches the end of its track first?



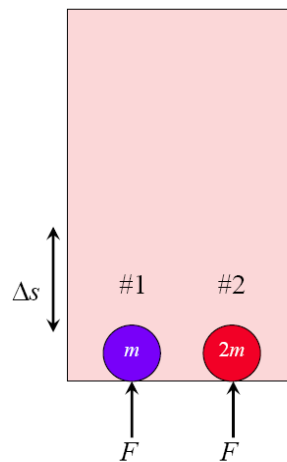
- A. Ball A
- B. Ball B**
- C. They reach the end at the same time

2

Two pucks initially at rest are pushed on a horizontal frictionless table. The red puck has twice the mass of the blue one.

They are pushed with identical forces F for the same distance Δs . When they reach the end of the table, which puck has the greatest kinetic energy?

- A. Puck #1
- B. Puck #2
- C. They have the same K**

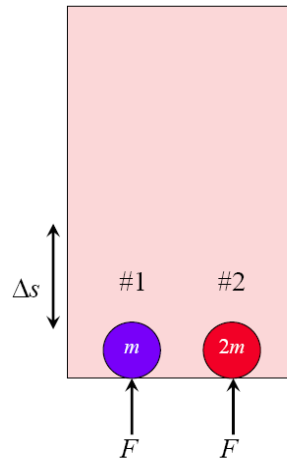


2

Two pucks initially at rest are pushed on a horizontal frictionless table. The red puck has twice the mass of the blue one.

They are pushed with identical forces F for the same distance Δs . When they reach the end of the table, which puck has the greatest momentum?

- A. Puck #1
- B. Puck #2
- C. They have the same momentum

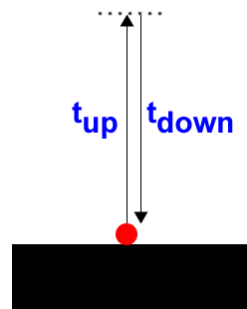


2

A ball is thrown straight up. Air resistance is not negligible.

The time for the ball to reach its maximum height is t_{up} . The time for the ball to fall back to Earth is t_{down} .

- A. $t_{\text{up}} > t_{\text{down}}$
- B. $t_{\text{up}} = t_{\text{down}}$
- C. $t_{\text{up}} < t_{\text{down}}$



2