Two identical trucks are traveling on a highway and they both brake with the same force. If truck A was going twice as fast as truck B, how much longer will it take to stop?

1. ½ the time
2. same amount of time
3. twice the time
4. four x the time

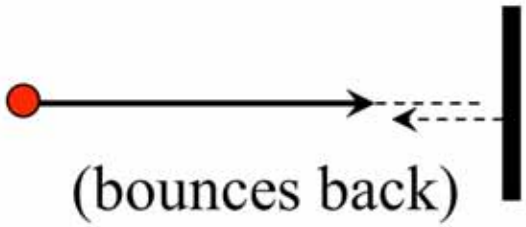
Two identical trucks are traveling on a highway at the same speed. If truck A brakes with half the force as truck B, how much longer will it take to stop?

1. ½ the time
2. same amount of time
3. twice the time
4. four x the time

A ball slides on a table and hits a wall.

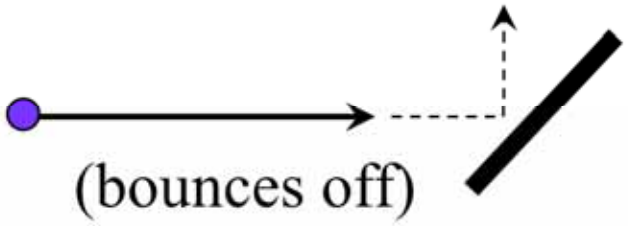
Which ball undergoes the greatest change in moementum?

1.



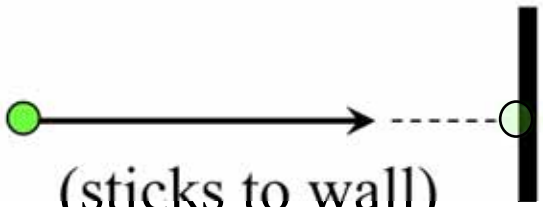
(bounces back)

2.



(bounces off)

3.

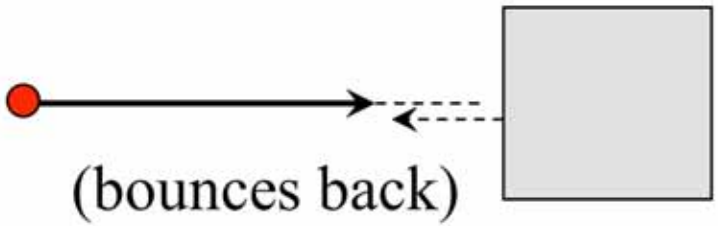


(sticks to wall)

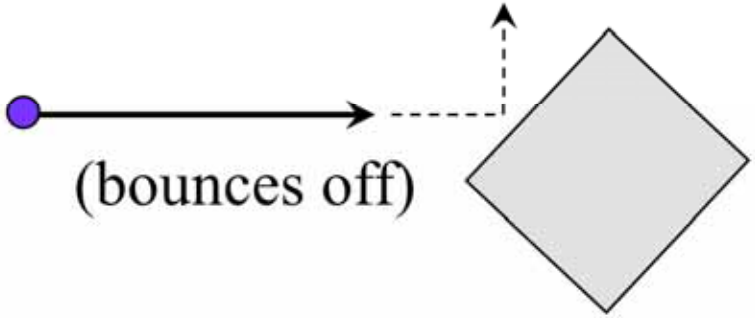
A ball slides on a table and hits a block.

Which block feels the greatest impulse from ball?

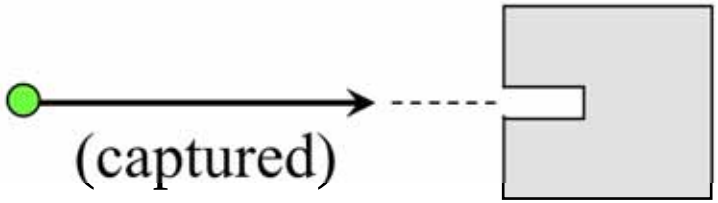
1. (bounces back)



2. (bounces off)



3. (captured)



Which ball will knock the block over?

1. A superball
2. A clay ball of equal mass
3. Both
4. Neither