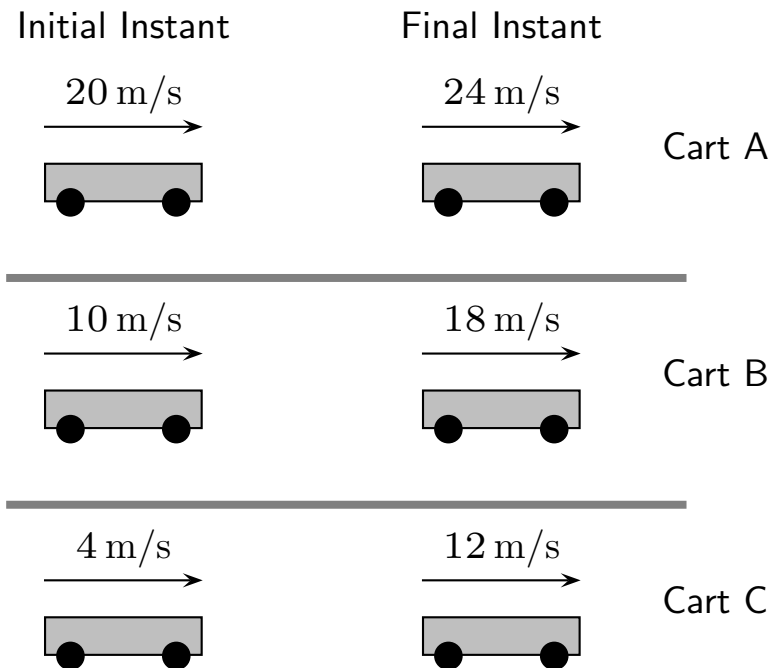


# Question 1

Various carts slide along tracks and their speeds at two times separated by 1 s are as indicated.



Which of the following is true regarding the size of the accelerations?

1. A smallest, C middle, B largest
2. C smallest, B middle, A largest
3. B and C same, A larger.
4. B and C same, A smaller.

## Question 2

During some interval, various objects move as described:

- A. A ball which swings around in a circle at constant speed.
- B. A ball that is dropped to the floor.
- C. A ball that is thrown upward.

For which of these is the acceleration exactly zero at all times during the interval?

1. None of them.
2. Only A.
3. Only B.
4. Only C.
5. Only A and B.
6. Only A and C.