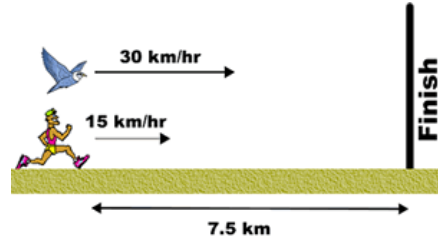


2

The Runner & The Bird

A marathon runner runs at a steady 15 km/hr. When the runner is 7.5 km from the finish, a bird begins flying from the runner to the finish at 30 km/hr. When the bird reaches the finish line, it turns around and flies back to the runner, and then turns around again, repeating the back-and-forth trips until the runner reaches the finish line. How many kilometers does the bird travel?



- A. 7.5 km
- B. 15 km
- C. 20 km
- D. 30 km
- E. Don't Know / Need More Time

2

Instantaneous Velocity

Is it possible to **directly** measure the instantaneous velocity?

- A. Yes
- B. No (I think, but ...)
- C. I'm Not Sure

2

You Are Standing on the Edge of a Cliff

You throw a ball straight up and another ball straight down with the same initial speeds. Neglect air resistance. When the balls hit the ground, which one has the greater speed?

- A. The one thrown upward.
- B. The one thrown downward.
- C. They hit the ground with the same speed.