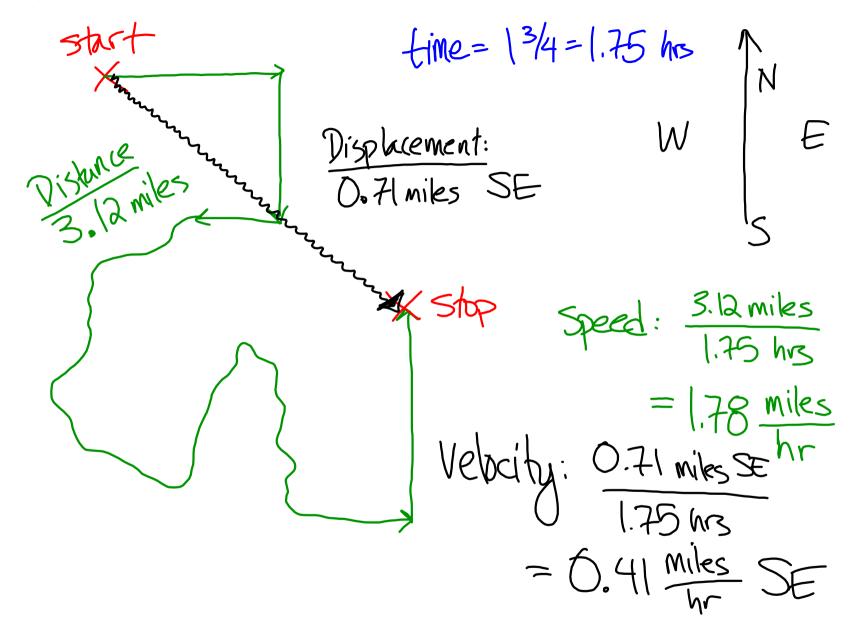


Basics of motion: Distance: length of the path of a
Moving object
Displacement: How for an object has
Moved from a starting point and in what direction How fort? Speed: how for an object travels (distance) in a certain time Velocity: an object's displacement in a certain amount of time - includes direction



Speed =
$$\frac{distance}{time}$$

 $S = \frac{d}{t}$ (no direction)
 $Velocity = \frac{displacement}{time}$
 $V = \frac{d}{t}$ (include direction)

For our next project, you'll be designing & building a gravity-powered racecur.

- · It will hold an Arduino that you will program
- · You'll make measurements and calculations to find displacement, lebeity, and acceleration