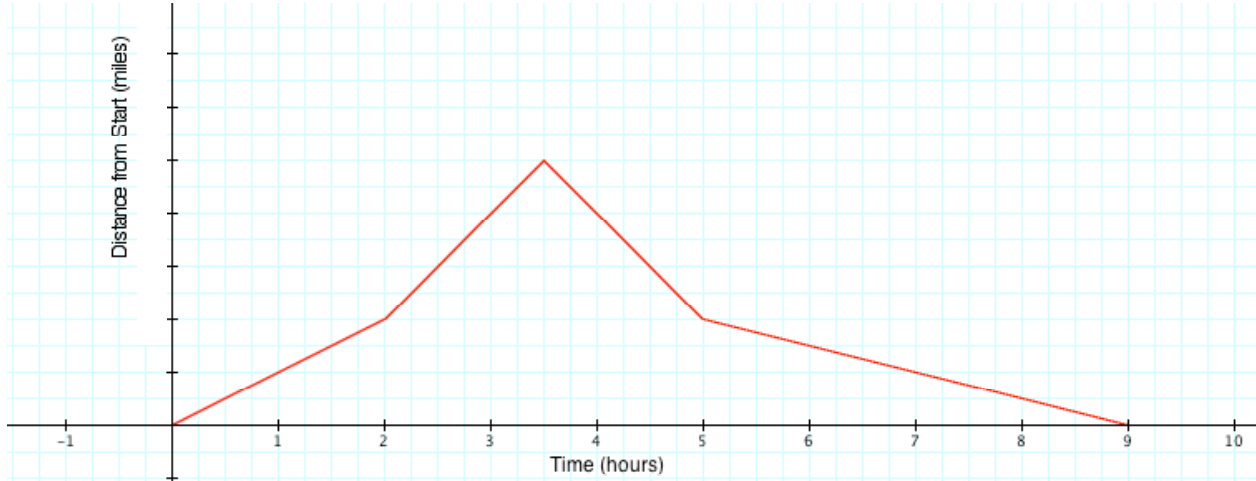


## Interpreting/Creating Graphs Quiz

1. Clown went on a bike trip. The following graph shows the number of miles that Clown was from the start relative to the number of hours since he started.



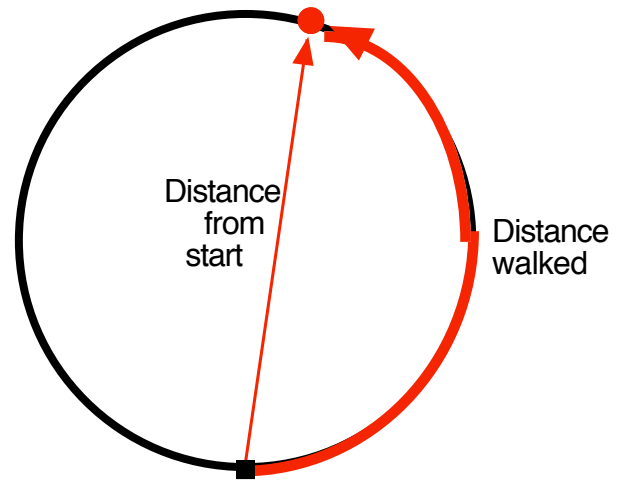
a) In the first part of his trip Clown traveled at a speed of 5 mi/hr. Put numbers on the vertical axis so that the graph is accurate.

b) How many miles did clown travel in the third part of his trip? How do you know?

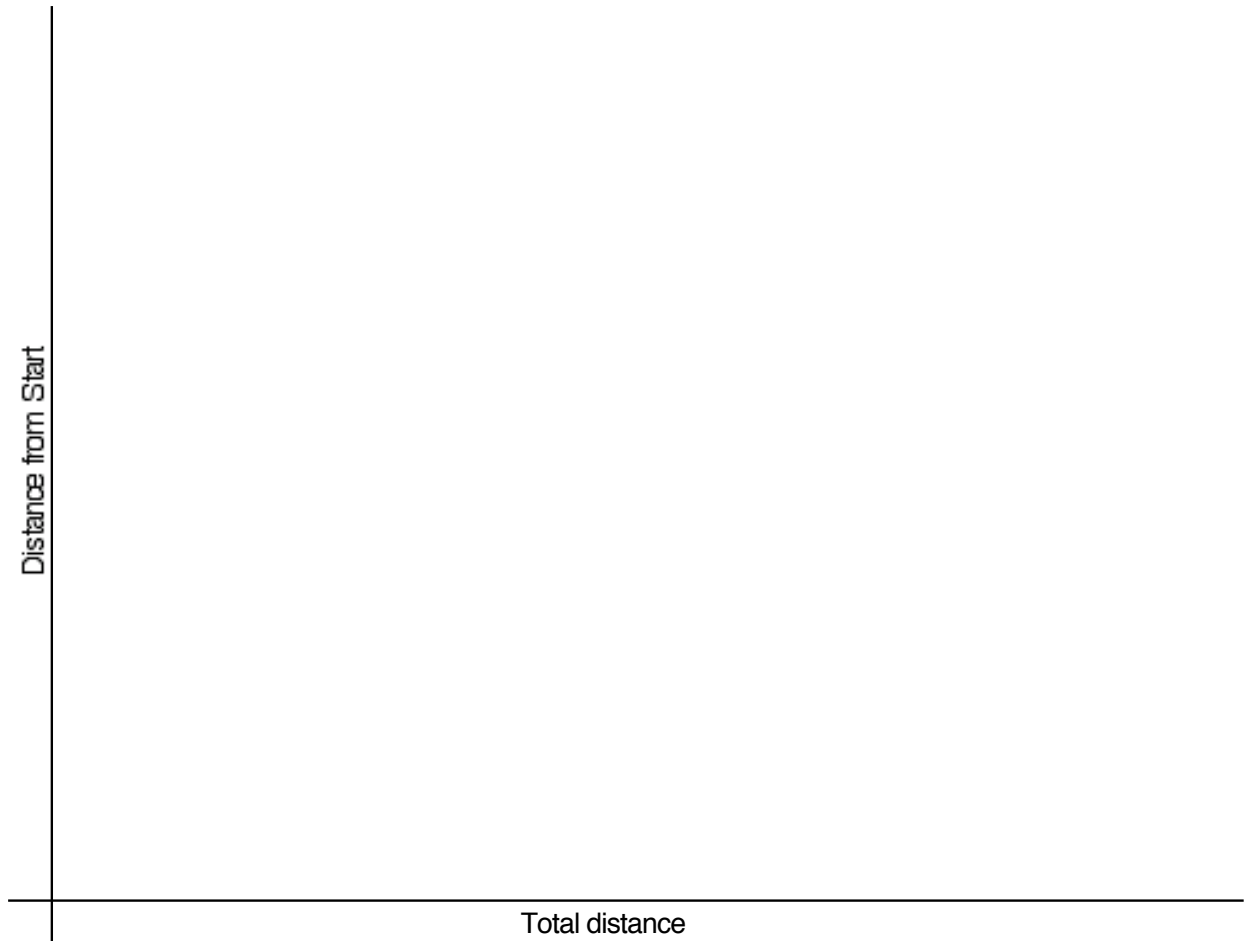
c) How fast did Clown travel in the fourth part of his trip? How do you know?

d) In one part of his trip, Clown blew a tire and had to walk. When did this happen? How do you know?

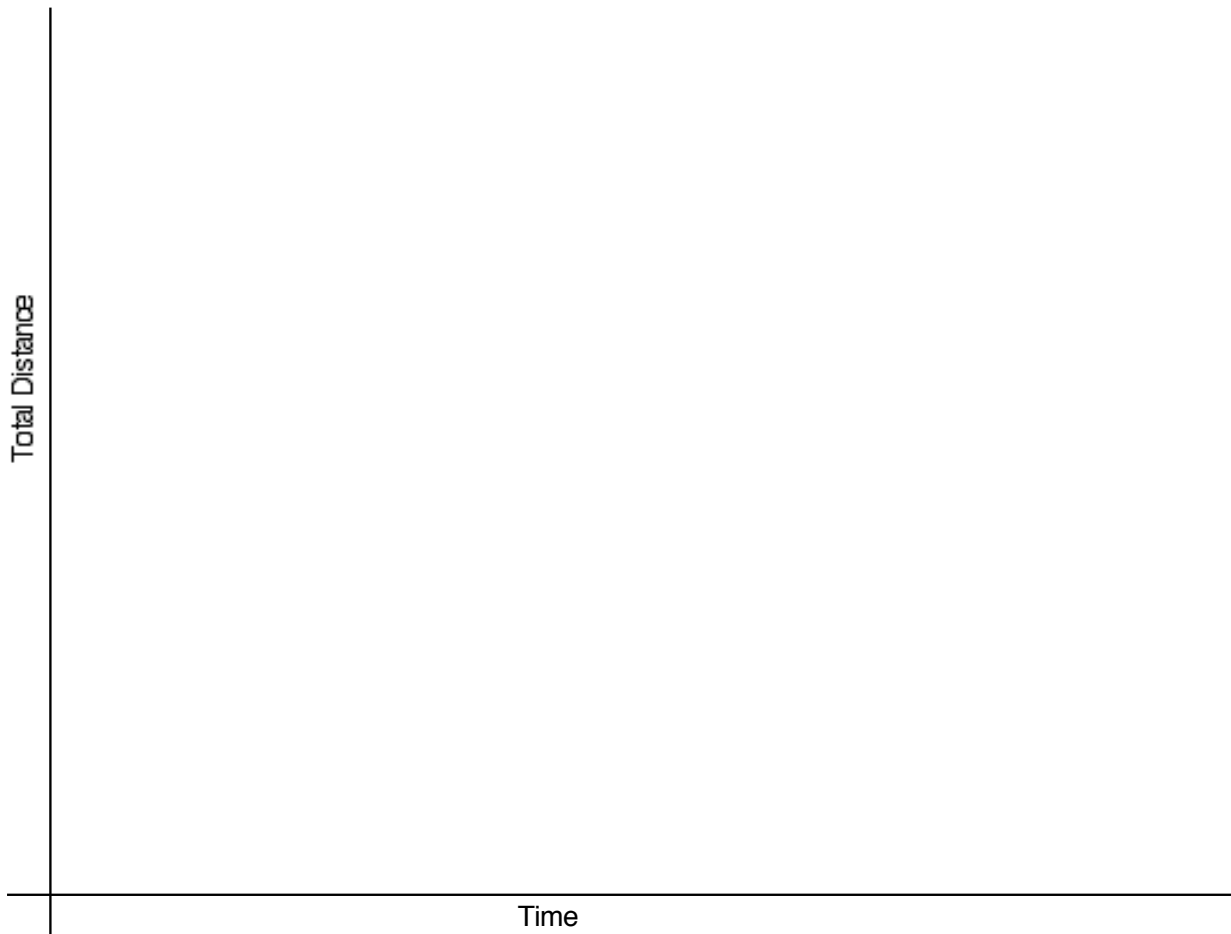
2. Matt walked around a circular track (see diagram). The black square shows where he began. The arrows show that we are tracking Matt's distance from his current location to the starting point and the distance he had walked to get to his current location.



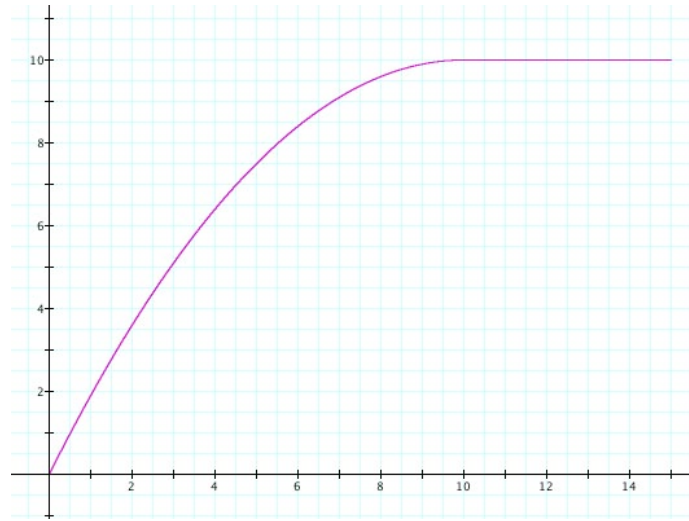
- a) Imagine Matt walking around the track once. Use your finger tool to sketch a graph of Matt's walk. Keep track of how far he had walked with your *horizontal* finger and his distance from the start with your *vertical* finger. (Hint: Think of playing Matt's walk a frame at a time to keep track of both.)



3. Miss Coombs' new years resolution is to run more. Sketch a graph of her **TOTAL** distance relative to the number of minutes she's been jogging while she was out on the following run:
- a) She began at a steady jog for 5 minutes (warming up, you know).
  - b) Then, she picked up the pace to a run, running top speed for 3 minutes.
  - c) She got a huge cramp and had to slow way down. She went at this slower speed for 4 minutes.
  - d) The cramp would not go away so she stopped for one minute
  - e) After that, she decided to toughen up and she sprinted all the way back home



4. The following graph tracks an object's SPEED relative to the number of seconds it had been moving:



- a) Describe this object's motion over the 15 seconds shown in the above graph.

- b) Sketch a graph (don't worry about total accuracy) of the object's *distance from start* in relation to the number of seconds it has been moving. Explain your graph (use the back of this sheet if necessary). ☺