8.G Bird and Dog Race
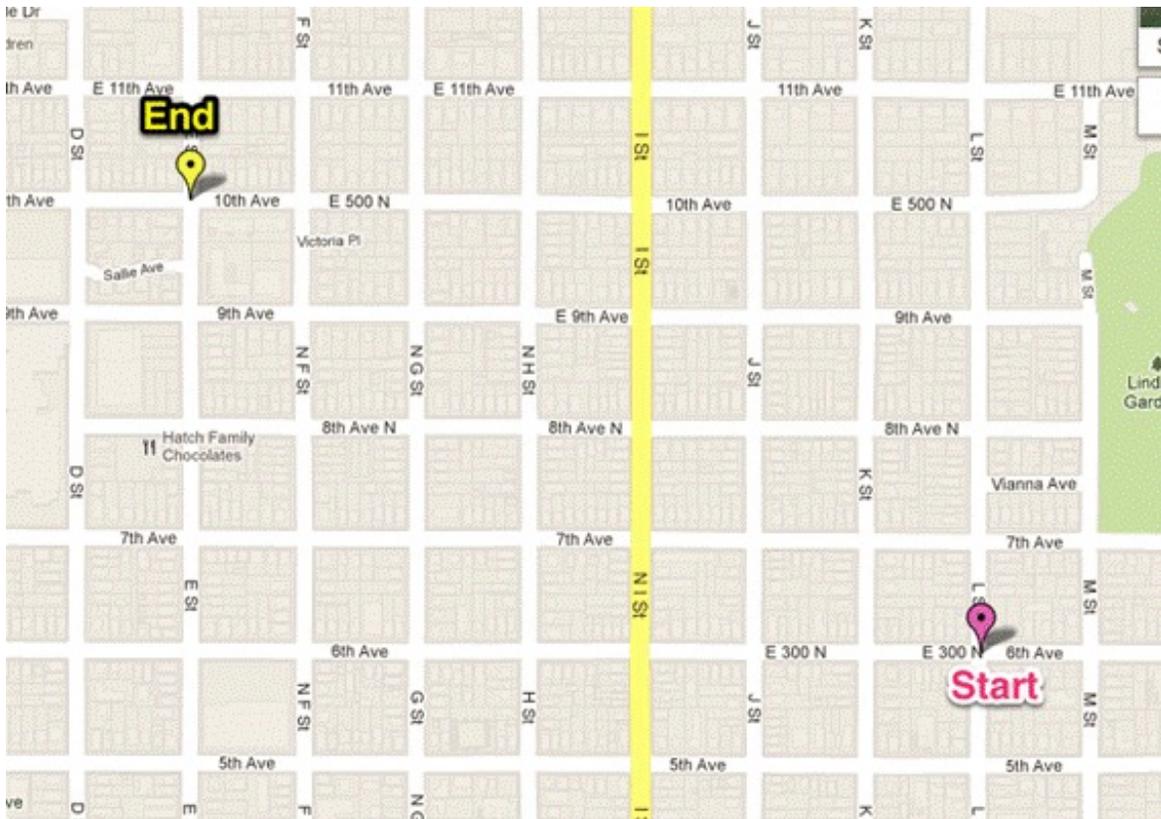
Task

Doug is a dog, and his friend Bert is a bird. They live in Salt Lake City, where the streets are 1/16 miles apart and arranged in a square grid. They are both standing at 6th and L. Doug can run at an average speed of 30 mi/hr through the streets of Salt Lake, and Bert can fly at an average speed of 20 mi/hr. They are about to race to 10th and E.

a. Who do you predict will win, and why?

b. Draw the likely paths that Doug and Bert will travel.

c. What will you need to compare, in order to determine the winner?

d. Devise a plan to calculate these, without measuring anything.

e. Who will win the race?