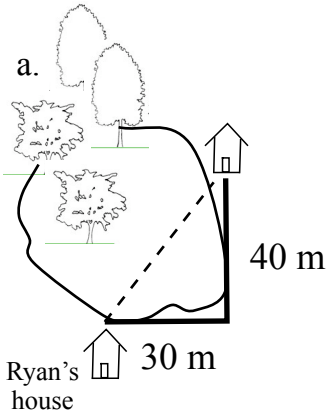


# COUNTDOWN Challenge

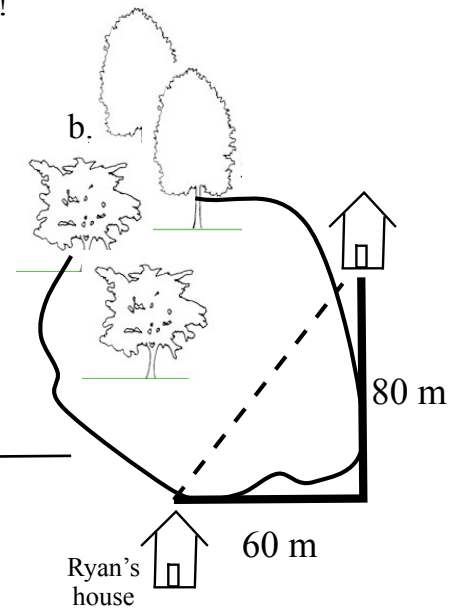
Let the Pythagorean Theorem Work for You!

$$a^2 + b^2 = c^2$$

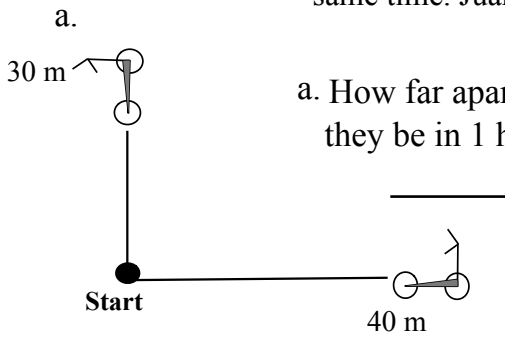


If Ryan walks to his friend's house through the park on the hypotenuse, instead of around the outer edges of the park, what is the distance of his trip?

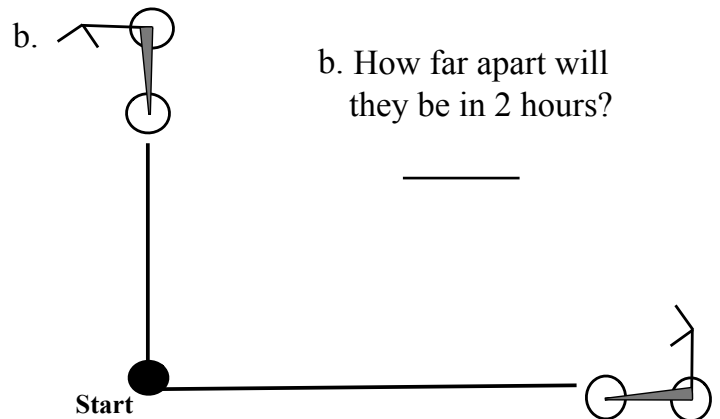
a. \_\_\_\_\_ b. \_\_\_\_\_



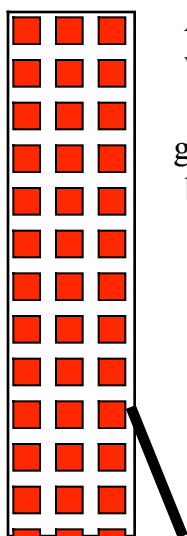
Two friends on scooters take off from the same starting point at exactly the same time. Juan scoots North at 30 mph. Emilio scoots East at 40 mph.



a. How far apart will they be in 1 hours?  
\_\_\_\_\_



b. How far apart will they be in 2 hours?  
\_\_\_\_\_



A 5 foot ladder touches the window on a building. The window is 4 feet off the ground. How far away is the base of the ladder from the building?  
\_\_\_\_\_

A 10 foot ladder touches the window on a building. The window is 8 feet off the ground. How far away is the base of the ladder from the building?  
\_\_\_\_\_

