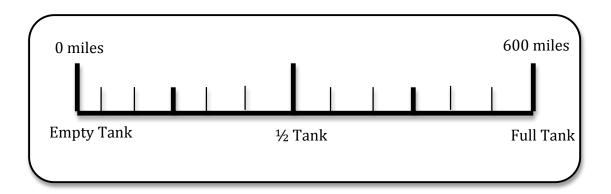
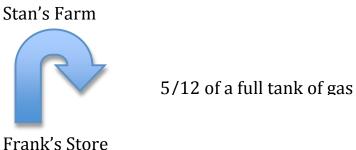
Fuel Gauge Problem

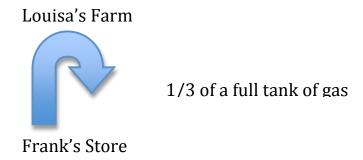
Frank runs a business called Frank's Fresh Farm Produce. Once a week he drives north of the city to farms where he buys the best possible fresh produce for his customers. **Frank can travel 600 miles on a full tank of gas**. His truck has a fancy, accurate fuel gauge.



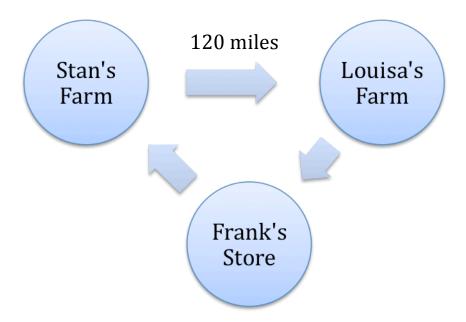
When Frank drives from his store to Stan's farm and back, he knows he uses 5/12 of a tank of gas.



When he drives to Louisa's farm and back, he uses 1/3 of a tank.



From a map of the area, he learns that there is a road from Stan's farm to Louisa's farm that is 120 miles long. He realizes that he can drive from his store to Stan's farm, then to Louisa's farm, and then back to his store in one loop.



Before he leaves, Frank can tell that he has 5/8 of a tank of gas.

Can he drive this loop without having to stop for gas? Or should he buy gas before he starts his trip?