



SAMPLE MATERIAL

Frank's Fresh Farm Produce

Madison Elementary School, Washington

Topic: Developing Effective Fractions Instruction for K-8

Practice: Fractions as Numbers

The first page of this sample material shows the problem that Madison Elementary School students work in groups to solve using a double number line. The photos on the second page show posters of the different solutions that student groups developed.



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 produce for his customers. Frank can travel 600 miles on a full tank of gas. His truck has a fancy, accurate fuel gauge.

Usually Frank has time to visit only one farm on each trip, but this week he decides to visit both Stan's and Louisa's farms. When Frank drives from his store to Stan's farm and back, he knows he uses $\frac{5}{12}$ of a tank of gas. When he drives to Louisa's farm and back, he uses $\frac{1}{3}$ of a tank of gas. From an area map, 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.

Frank can tell by looking at his fuel gauge that he has $\frac{5}{8}$ of a tank of gas. Can he drive this loop without having to stop for fuel? Or, should he buy gas before he starts his trip?

