Chloride (Cl⁻)

Water samples are collected from a well in the park, the river, and wells in the local aquifer. Based on the water chemistry, the park water was a mixture of aquifer and river water. What is the mixing ratio?

Park

	Cl (mg/L)
Park	32
River	15
Local Aquifer	39

Let x be the fraction of aquifer water.

(1-x)(15) + (x)(39) = 32

24x = 17

x = 0.71 (71% is aquifer water & 29% is river water)