BCP / AMDG	
Discrete Math	

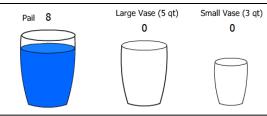
Name: \_\_\_\_\_\_Fall Semester

## Class Notes/Activity

Using Graph Theory to Model Systems

## The Water Puzzle

**Instructions:** Starting with a pail containing 8 quarts of water and small (3-quarts full) and large (5-quarts full) vases as measuring devices, you are to split the water in the pail equally between two people. Thus there must be 4 quarts of water in the pail and 4 quarts of water in the 5 quart vase at the end of the puzzle.



What is the minimum number of pours required to achieve the goal of 4 quarts of water in each pail?