

Puzzle of the Week

Water Cups – 1

You have two unmarked water cups. One holds 3 ounces and the other 7 ounces. You also have a large supply of water. You can use these two cups to create amounts other than 3 ounces and 7 ounces. For example, create 4 ounces in the larger cup by filling the 7-ounce cup and then pouring 3 of its ounces into the smaller cup.

THE CHALLENGE: Describe the steps for putting 2 ounces in one of these cups.



3 Ounce



7 Ounce

EXPLORATION: Describe the steps to take to create any amount from 1 to 7 ounces. What is your general method? Experiment with what happens if your pair of cups have different sizes. For example, what happens if the sizes in ounces are 4 and 7, or 5 and 11?