

Problem of the Week #13
Wasting Water

13

Harper needs exactly 5 L of water. All she has is a 7 L and a 3 L container.

Explain how she can use these containers to measure exactly 5 L of water.



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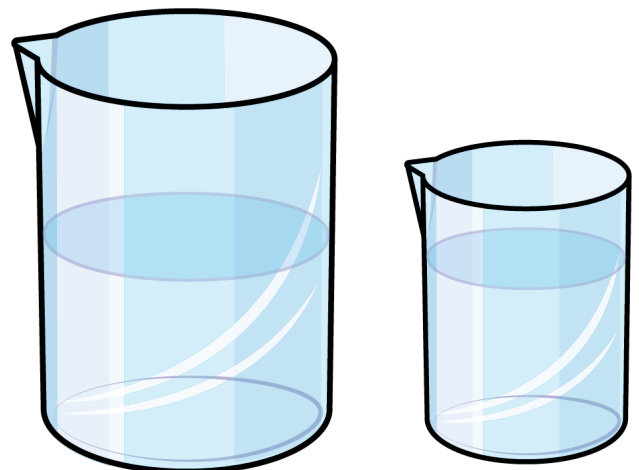


Problem of the Week #14
Poor Pouring

14

Suppose you have a 3 litre and an 8 litre container, with no markings on either

How can you use these containers to get exactly 4 litres of water in the largest container?



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Teachers Notes:

Problem 13:

	3 litre container	7 litre container
Pour 3 L into 7 L container twice.	0	6
Pour a third time. 2 L will be left in the 3 L container.	2	7
Empty the 7L container	2	0
Pour 2 L from the 3 L container into the 7 L container.	0	2
Fill 3 L container	3	2
Empty 3 L into the 7 L container that already has 2 L in it making a total of 5 L	0	5

Problem 14:

	3 litre container	8 litre container
Fill 8 litre container	0	8
Fill 3 litre container from 8 litre container	3	5
Dump 3 litre container	0	5
Fill 3 litre container from 8 litre container	3	2
Dump 3 litre container	0	2
Pour into 3 litre from 8 litre container	2	0
Refill 8 litre container	2	8
Fill 3 litre container from 8 litre container	3	7
Dump 3 litre container	0	7
Fill 3 litre container from 8 litre container	3	4