



# THE BOTTLE CHALLENGE

**Category:** Problem Solving  
**Year Level:** Any (aimed mainly at lower/middle secondary)  
**ADD:** bottles.cat ([Casio Education Website](#))  
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**Description:** This challenge involves a 5 litre bottle and a 3 litre bottle, both without markings. The goal is to finish with 4 litres in the 5 litre bottle. The only way to do this is pour water between the bottles. You have access to as much water as you need.

**Instructions:** It is recommended that you read these points either before you start or keep them handy while you play.

- When the contents of one bottle are poured into the other, the excess (if there is any) will remain in the pouring bottle.
- You will be presented with a list of options (opposite), from which you have to remember the number that corresponds to the action you wish to take.
- After pressing EXE, you will be prompted to enter the number of the option that you choose.

```
1: Fill A (5L)
2: Fill B (3L)      Remember
3: Empty A         your option.
4: Empty B
5: Pour contents of B into A
6: Pour contents of A into B
(Press EXE to continue)
```

```
Option?
```