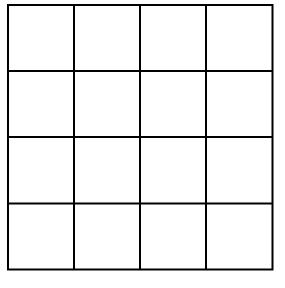
Bottles and Crates

Baseboard



You need **10 counters or coins** to represent bottles
which are going to be placed
in a 4 × 4 square crate





Puzzle 1

Instructions Using six of these bottles, place them in the 4 x 4 crate such that there is an even number of bottles in each row, and an even number of bottles in each column.

Puzzle 2 Is it possible to arrange the six bottles so that there is an odd number of bottles in each row, and there is an odd number of bottles in each column?

Puzzle 3

Instructions Using **ten** of these bottles, place them in the 4 × 4 crate such that there is an **even number of bottles in each row**, and an **even number of bottles in each column.**

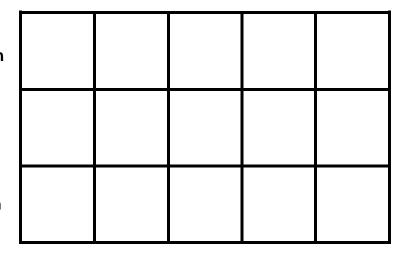
Puzzle 4 Is it possible to arrange the **ten** bottles so that there is an **odd number of bottles** in **each row**, and there is an **odd number of bottles in each column?**

Puzzle 5

Instructions Is it possible to arrange six bottles in a 5 x 3 rectangular crate so that there is an even number of bottles in each row, and there is an even number of bottles in each column?

Puzzle 6

Is it possible to arrange the six bottles so that there is an odd number of bottles in each row, and there is an odd number of bottles in each column?



Answers