

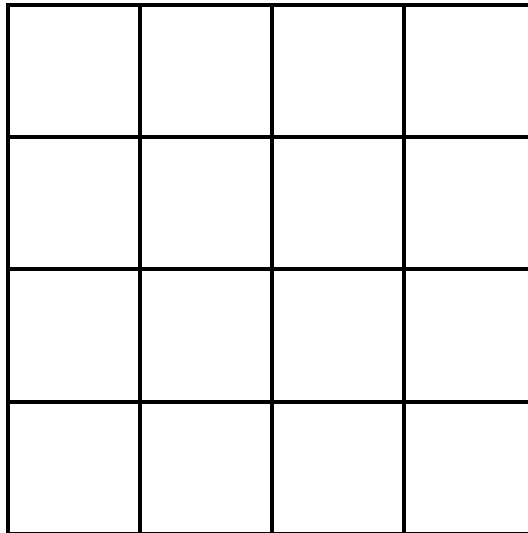
Bottles and Crates



Baseboard

Resources

You need **10 counters or coins** to represent bottles which are going to be placed in a 4 x 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**?

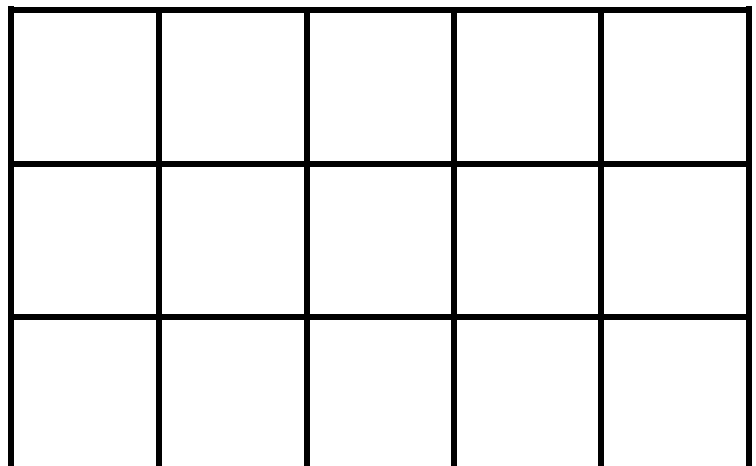
Puzzle 3

Instructions Using **ten** of these bottles, place them in the 4 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 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**?