

Twelve coins are placed on a table. You are told that five of them are showing heads and the other seven are showing tails. You are blindfolded and wearing gloves, and you are unable to determine whether any particular coin is showing heads or tails. You are allowed to pick up coins and turn them over, but you will not know whether you have turned them from heads to tails or from tails to heads.

*How can you arrange the twelve coins into two groups so that each group has the same number of coins showing heads?*