

Grouping according to group size introduction

1 The group size is fixed — find out how many groups that makes

Pose the problem: there are 8 basketballs. Put two in each basket. Ask how many baskets will be needed.

"There are eight basketballs. Put two in each basket. How many baskets do we need?"

Deal the 8 basketballs out two at a time, making a new basket each time, until none are left.

"Two in this basket, two in the next, two in the next. How many baskets did that take?"

Count the finished baskets to answer the question.

"Count the baskets. That is how many we needed — four."

Repeat with a different fixed group size: there are 12 chairs, three at each table.

"This time there are twelve chairs. Put three chairs at each table. How many tables will we need?"

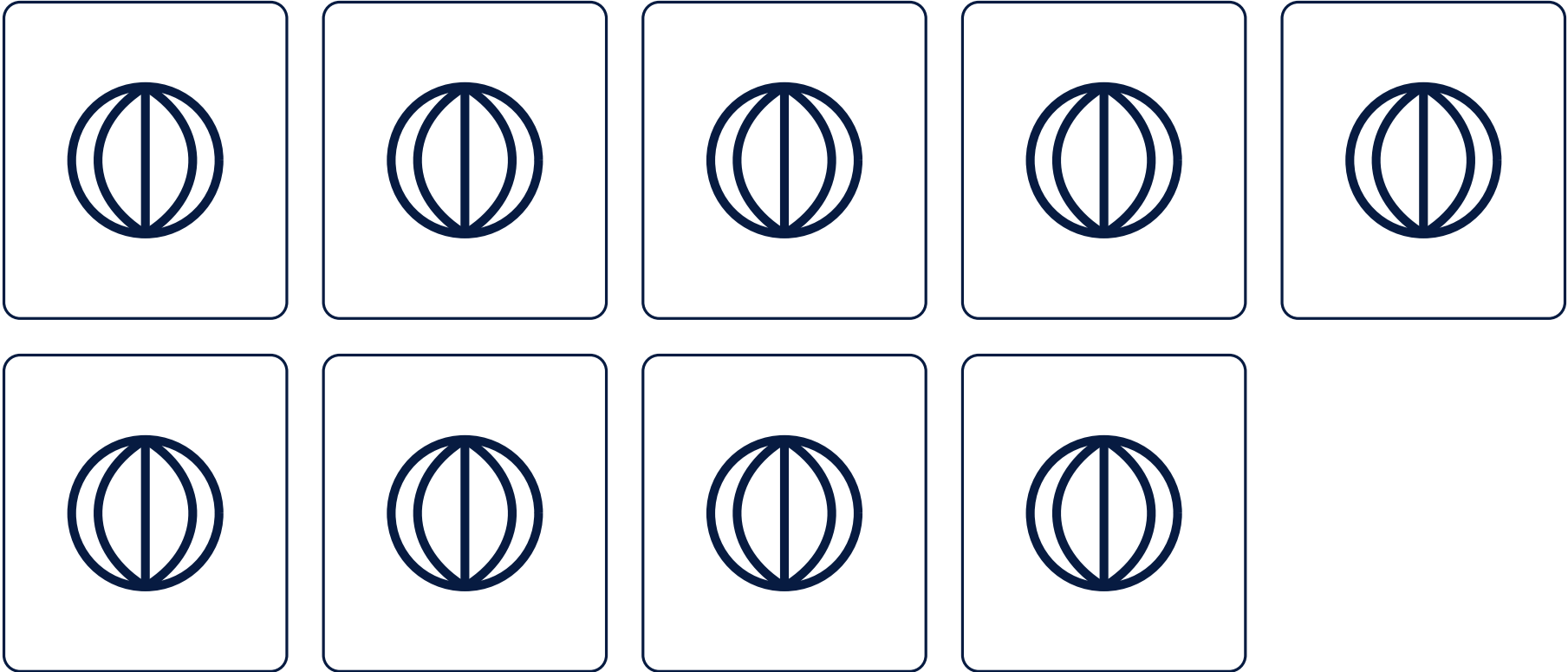
Connect it back to the grouping language: name the result as 'N groups of M'.

"Four groups of two basketballs. Four groups of three chairs. However many baskets or tables we made, that is our number of groups."

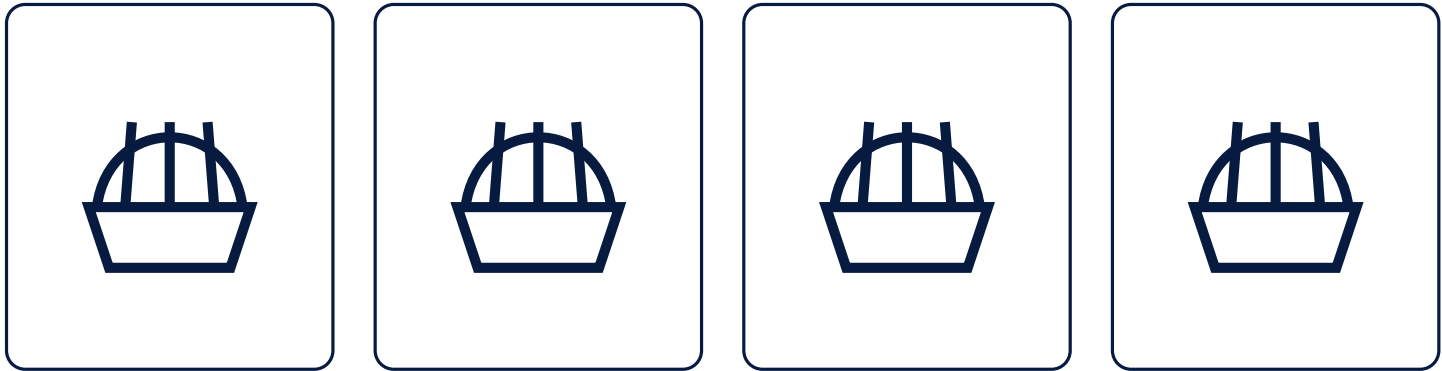
Show a common mistake: stopping before all the objects are used. There are 8 basketballs, but only 3 baskets were made. Check it: are there any objects left that still need a group?

"I stopped after three baskets, but there were still basketballs left over. Are there any left that still need a group?"

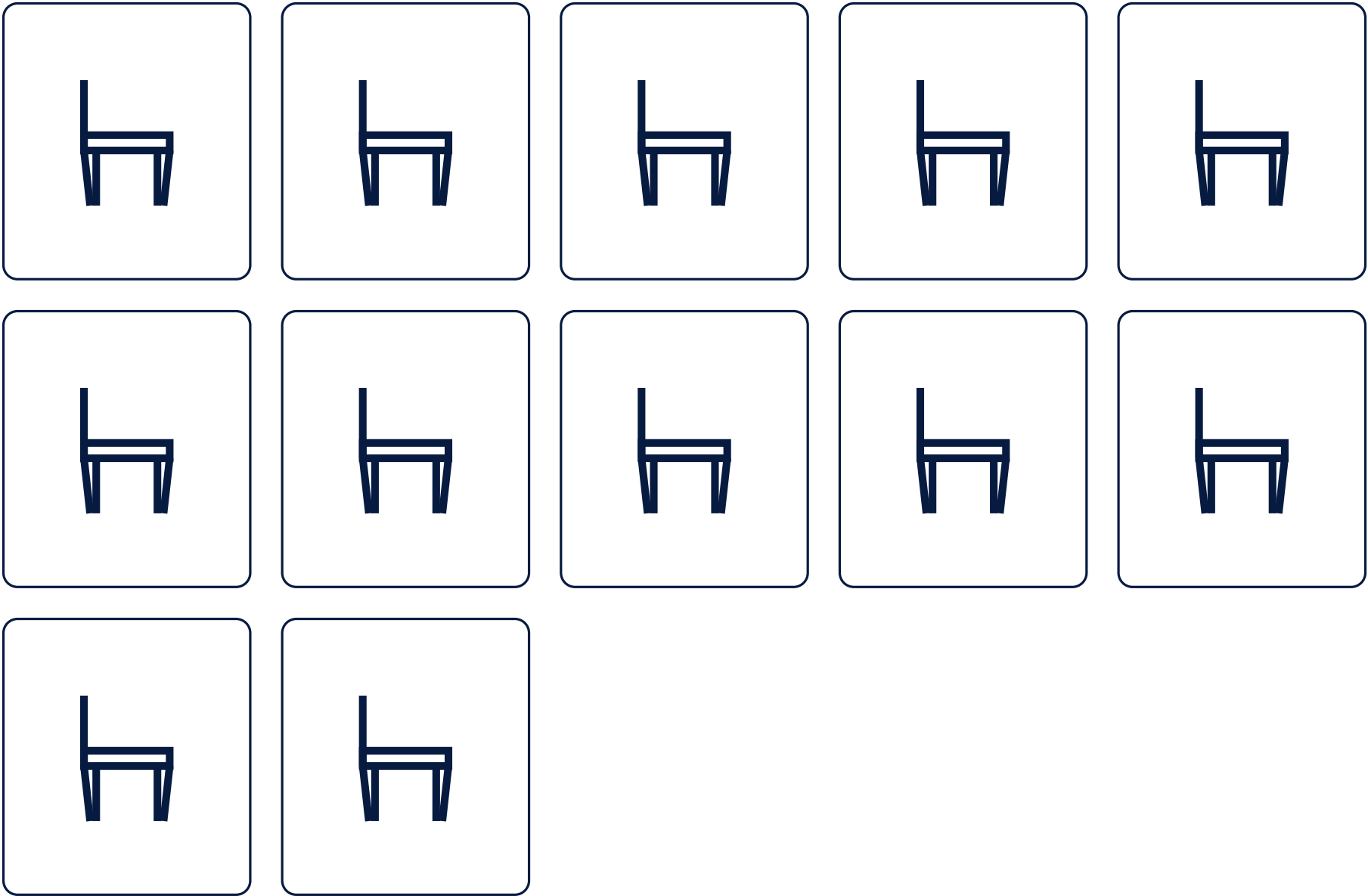
Cards — Basketballs — demonstration (9 needed)



Cards — Baskets — demonstration (4 needed)



Cards — Chairs — demonstration (12 needed)



Cards — Tables — demonstration (4 needed)

