

Lesson three

02/23/24

COUNTING PRINCIPLES

referred to as the fundamental counting rule, is a way to figure out the number of possible outcomes for a given situation

RULE OF SUM

↳ can be performed in either two ways, where the two methods cannot be performed simultaneously. → keyword OR

supposed a bakery has a selection of 20 different cupcakes, 10 different donuts, and 15 different muffins. if you are to select a tasty treat, how many different choices of sweets can you choose from?

since we have to choose from three diff. desserts, we have
 $20 + 10 + 15 = 45$ to choose from

RULE OF PRODUCT

↳ a task can be performed in a sequence of tasks, one after another, then completing the job can be done by the product of the ways to perform the task

there are 4 boys and 10 girls, if a boy and a girl have to be chosen for the class monitor

the students have $4 \times 10 = 40$ ways to choose