

# Mathematical Foundations for Computer Applications

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**SUM RULE**

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## THE SUM RULE

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- If a task can be done either in one of  $n_1$  ways or in one of  $n_2$  ways, where none of the set of  $n_1$  ways is the same as any of the set of  $n_2$  ways, then there are  $n_1 + n_2$  ways to do the task.

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## THE SUM RULE-Problems

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1. Suppose that either a member of the mathematics faculty or a student who is a mathematics major is chosen as a representative to a university committee. How many different choices are there for this representative if there are 37 members of the mathematics faculty and 83 mathematics majors and no one is both a faculty member and a student?

- **$37 + 83 = 120$  possible ways to pick this representative.**

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## THE SUM RULE-Problems

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2. There are 9 kinds of pizzas, and 6 kinds of pastas.  
Bruce wants to try a different meal each day. How long does it take for him to try each meal once ?

**Altogether, there are  $9 + 6 = 15$  kinds of meal**

- **Bruce needs 15 days**



**THANK YOU**

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