

# Fundamental Counting Principle

If there are  $m$  ways for one event to occur and  $n$  ways for a second event to occur, then there are  $m \cdot n$  ways for both events to occur.

Example:

How many outfits can Joey make using 3 pairs of pants and 4 shirts?

$$3 \cdot 4 = 12 \text{ outfits}$$

