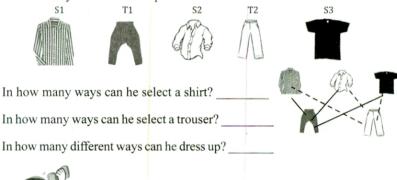


Concept 1: Fundamental Counting Principle

If there are 'm' ways to perform a task, and 'n' ways to perform another, then, there are $m \times n$ ways of doing both of them. The Fundamental Counting Principle is the guiding rule for finding the number of ways to accomplish two or more tasks.

Example: If Mr. X has three shirts and two trousers, in how many different ways can he dress up?





Drill 1

a.	A shopping mall has 3 distinct glass doors and 2 distinct metal doors for
	entry and has 5 distinct glass doors and a wooden door for exit.

In	now	many	ways	can you	enter	ine n	iaii.			
In	how	many	ways	can you	leave	the n	nall?			
In	total	, how	many	ways car	n you	enter	and	leave	the n	nall?



b. If there are three trains from A to B and 5 trains from B to C, in how many ways can one travel from A to C by train (assume there are no direct trains from A to C)?