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Module: Probability and Statistics (PST)
2nd Year EM, GM

Worksheet : N°6

Exercise 1:

Let us consider the following table of contingencies:

	0	1	2
1	4	2	1
2	5	4	3

1. Determine the marginal frequency distribution of variable X, its mean and variance. Same questions for the variable Y.
2. Determine the conditional distribution of Y for X=1 and the conditional mean.
3. Represent these two variables graphically.

Exercise 2:

On the occasion of a sports competition bringing together 18 athletes, a gold, a silver and a bronze medal are awarded.

- How many distributions are there (before the competition, of course...)?

Exercise 3:

In a class of 32 students, there are 19 boys and 13 girls. Two delegates must be elected

1. How many choices are available?
2. What is the number of choices if we impose a boy and a girl
3. What is the number of choices if we impose 2 boys?