

Sujet n°15

Please do not write on this document and do not forget to hand it back to the jury at the end of the exam.

**PROBABILITY**

1. Peter throws an ordinary fair dice twice.

Work out the probability that he gets the number 4 both times.

2. Emma keeps rolling this dice until she rolls a 4.

Work out the probability that Emma rolls the dice:

- a. Exactly twice
- b. More than three times.

3. Do you know a dice game? Or could you imagine a dice game?

Introduce it and give some probabilities.