

Answer the following questions:

- 1) Which developed the Classical method for probability in 1650?
- 2) Why is it important BERNOULLI for his book "ARS Conjectandi" (1713)?
- 3) Which present scientific application of probability in 1812 ?
- 4) Which developed the first rigorous approach to probability in 1933 ?
- 5) Write a classic definition of probability.
- 6) Write the two important hypotheses for classical definition of probability.
- 7) Write the main rules of classical probability.

Calculates the following probabilities

Question 1) When roll a dice, what is the probability of:

- a) rolling a number < 3 ?
- b) rolling a number < 3 OR a number > 5 ?
(smaller number of three or greater than 5)
- c) rolling an even number OR a number > 5 ?

Question 2) When you pick at random a card from a Deck of 52 Cards.

What is the probability of:

- a) picking a red King?
- b) picking a figure?
- c) not picking a figure ?
- d) picking a Ace?
- e) picking a figure OR an Ace?
- f) picking a figure OR a black card?

Question 3) A box contains: 6 red balls, 5 green balls and 4 yellow balls.

→ Draws the tree diagram !

What is the probability of choose at random :

- a) a green ball?
- b) not a green ball ?
- c) a green ball OR a red ball ?
- d) a pink ball?