Trobability & Statistics. Fest 1 Retake. May 20, 2020 (15 minutes) a symmetric coin is flipped centil we get a series of tails—heads—tails. What is the probability that the coin will be flipped (a) exactly & times; (b) exactly 7 times?

Trobability & Statistics. Fest 1 Rétake. May 20, 2020 Problem 2 (15 minutes) There are 10 white, 11 black and 12 purple balls in the win an experiment consists in taking a random ball out of the win, noting its colour, and putting it back into the win back into the wrn. After 15 experiments black has been noted twice, white has been noted 9 times, and purple 4 times. What is the probability that the first three balls noted were in its? noted were white?

Trobability & Statistics. Fest 1 Rétake. May 20, 2020 Problem 3 (20 minutes) Fen people enter the lift at the ground floor of a nine-storey building (i.e. there are ground, 1st, , 8th floors). Find the expected value of number of people who (a) exit at the fifth floor;
(b) do not exit at the fourth floor;
(c) exit after the third floor (i.e. on the 4th floor or higher).

Trobability & Statistics. Fest 1 Retake. May 20, 2020 Problem 4 (10 minutes) Let us consider 15-digit numbers such that their digits follow in a non-decreasing order. One of such numbers is chosen at random. Determine the probability that all 10 different digits are used in writing down this number.