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Probabilities of compound events

Find the probability of getting a head in tossing the first coin and getting a tail in a. tossing the second coin? Find the number of possible outcomes for the first coin. The coin has 2 sides, so, there are 2 possible outcomes. Find the number of posible outcomes for the secound coin, the coin has 2 sides so there are 2 possible outcomes. Multily 2 by 2 to find the number of combinations = $2 \times 2 = 4$ combinations So, there are 4 possible out comes. Find the number of Favorable outcomes for the first coin. The coin has I head side, so there is I fevorable out come Find the number of favourable outcomes for the second coin, the coin has I tail side, so there is 1 favorable outcome. Multiply 1 by 1 to find the number of combinations = $1 \times 1 = 1$ So, there is 1 favorable outcome. Therefore, the probability of getting a head in the first coin and geting a tail in the secound coin is 1 out of 4 b. Find the probability of picking a blue marble and flipping heads? Find the number of possible outcomes for the marbles, there are 9 marbles altogether So, there 9 possible outcomes. Find the number of posible outcomes for the coin, the coin has 2 sides so there are 2 possible outcomes. Multily 9 by 2 to find the number of combinations = $9 \times 2 = 18$ combinations So, there are 18 possible outcomes. Find the number of Favorable outcomes for the marbles. There are 3 blue marbles so, there are 3 favorable outcomes Find the number of favorable outcomes for the coin, the coin has I head side, so there is 1 favorable outcome. Multiply 3 by 1 to find the number of combinations = $3 \times 1 = 3$ So, there are 3 favorable outcome. Therefore, the probability of picking a blue marble and flipping heads is 3 out of 18.