Conditions

Maria is clueless about 4 of her multiple choice answers. The possible answers are A, B, C, D, E, or F. What is the probability that she will guess all four answers correctly? please help

Solution

We have to find the probability, that Maria guesses all four answers correctly from a set of 6 answers. Then, the favorable outcome for this event is only one. And the amount of all possible outcomes is:

$$C_4^6 = \frac{6!}{4!\,2!} = 15$$

The probability of some event (by definition) is a rate of all favorable outcomes for this event, to all possible outcomes. Hence, the probability she will guess all four answers correctly is:

$$P = \frac{1}{15}$$

Answer: $\boldsymbol{P = \frac{1}{15}}$