

Answer on Question #58446 – Math – Statistics and Probability

Question

A bag contains 9 red, 2 blue and 3 green marbles. What is the probability of randomly selecting a non-blue marble from bag.

Solution

Total amount of marbles is equal to $9 + 2 + 3 = 14$.

The probability of randomly selecting a non-blue marble from a bag is equal to the ratio of amount of red and green marbles to total amount of marbles:

$$P_{\text{non-blue}} = \frac{\text{amount of red and green marbles}}{\text{total amount of marbles}} = \frac{9+3}{14} = \frac{12}{14} = \frac{6}{7}.$$

Answer: Probability of randomly selecting a non-blue marble from bag is equal to $\frac{6}{7}$.