

Solution:

Steps:

1. Find the probability of each independent event.
2. Multiply the probabilities of each event.

- P (green and red)

$$P(\text{green}) = \frac{1}{12} \quad \begin{array}{l} 1 \text{ green marble} \\ 12 \text{ total marbles in the sample space} \end{array}$$

$$P(\text{red}) = \frac{5}{12} \quad \begin{array}{l} 5 \text{ red marbles} \\ 12 \text{ marbles in the sample space} \end{array}$$

$$P(\text{green and red}) = \frac{1}{12} \cdot \frac{5}{12} = \frac{5}{144}$$

The probability of choosing a green marble and then a red marble is $5/144$ which is 3.5% chance.

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