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so many fake sites. this is the first one which worked! Many thanks

Total number of balls = $(2 + 3 + 2) = 7$.

Let S be the sample space.

Then, $n(S)$ = Number of ways of drawing 2 balls out of 7

$$\begin{aligned} &= {}^7C_2 \\ &= \frac{(7 \times 6)}{(2 \times 1)} \\ &= 21. \end{aligned}$$

Let E = Event of drawing 2 balls, none of which is blue.

$\therefore n(E)$ = Number of ways of drawing 2 balls out of $(2 + 3)$ balls.

$$\begin{aligned} &= {}^5C_2 \\ &= \frac{(5 \times 4)}{(2 \times 1)} \\ &= 10. \end{aligned}$$

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{10}{21}$$

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