

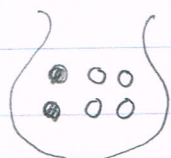
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$$\begin{aligned}
 (1) & \left(\frac{1}{6}\right) \times \left(\frac{1}{6}\right) \times \left(\frac{1}{6}\right) \times \left(\frac{5}{6}\right) \times 4C_3 \\
 &= \frac{5}{6^4} \times 4C_1 \\
 &= \frac{5}{6^4} \times 4 \\
 &= \frac{5}{\underset{3}{\cancel{6} \cdot \cancel{6} \cdot \cancel{6} \cdot \cancel{6}}} \times \cancel{4}^1 \\
 &= \frac{5}{6 \cdot 6 \cdot 3 \cdot 3} \\
 &= \frac{5}{324}
 \end{aligned}$$

$$nCr = nC_{n-r}$$

$$\begin{aligned}
 (2) & \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{4}{6}\right) \times \left(\frac{4}{6}\right) \times 4C_2 \\
 &= \frac{1}{3} \times \frac{1}{3} \times \frac{2}{3} \times \frac{2}{3} \times \frac{4 \cdot 3}{2 \cdot 1} \\
 &= \frac{8}{27}
 \end{aligned}$$

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(i) 赤 4 回 の 確 率

$$\begin{aligned}
 & \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{4}{6}\right) \times 5C_4 \\
 &= \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{2}{3} \times 5C_1 \\
 &= \frac{2}{3^5} \times 5 \\
 &= \frac{10}{243}
 \end{aligned}$$

$$nC_1 = n$$

(ii) 赤 5 回 の 確 率

$$\begin{aligned}
 & \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \times \left(\frac{2}{6}\right) \\
 &= \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} \\
 &= \frac{1}{3^5} \\
 &= \frac{1}{243}
 \end{aligned}$$

(i) (ii) の 和

$$\frac{10}{243} + \frac{1}{243} = \frac{11}{243}$$

$$\therefore \frac{11}{243}$$