URNA 1 : $\frac{2}{6}$

bolitas

n : $\frac{1}{10}$

v : $\frac{6}{10}$

r : $\frac{3}{10}$

URNA 2 : $\frac{4}{6}$

bolitas

n : $\frac{2}{10}$

v : $\frac{2}{10}$

r : $\frac{6}{10}$

a) $P(r) = ?$

Respecto a la urna 1 : $\frac{2}{6} \cdot \frac{3}{10} = \frac{1}{10}$ } $P_1(r)$

Respecto a la urna 2 : $\frac{4}{6} \cdot \frac{6}{10} = \frac{2}{5}$ } $P_2(r)$

$P_{total}(r) = P_1(r) + P_2(r) = \frac{1}{10} + \frac{2}{5} = \frac{1}{2}$

b) $P(n) = ?$

Respecto a la urna 1 : $\frac{2}{6} \cdot \frac{1}{10} = \frac{1}{30}$ } $P_1(n)$

Respecto a la urna 2 : $\frac{4}{6} \cdot \frac{2}{10} = \frac{2}{15}$ } $P_2(n)$

$P_{total}(n) = \frac{1}{6}$

c) $P(1/n) = \frac{P(1) \cdot P(n)}{P(n)} = \frac{P_1(n)}{P_{total}(n)} = \frac{\frac{1}{30}}{\frac{1}{6}} = \frac{1}{5}$

d) $P(2/n) = \frac{P(2) \cdot P(n)}{P(n)} = \frac{P_2(n)}{P_{total}(n)} = \frac{\frac{2}{15}}{\frac{1}{6}} = \frac{4}{5}$