RAFAEL JIMÉNEZ LÓPEZ

(14)

5m 3b		1N 2b
A		B

$P = \frac{1}{3}$ → 1 o 2 → BOLA DE B (SIN MIRAR) a A → BOLA DE A

DADO: S' → 1 o 2 ; S → 3, 4, 5, y 6 → BOLA DE A (SIN MIRAR) a B → BOLA DE B.

$P = \frac{2}{3}$ → 3, 4, 5, y 6

a) Pr. BOLA EXTRAIDA EN 2º LUGAR SEA NEGRA.

$$P(N) = \underbrace{P(B)}_{\text{IMPLICA QUE HAS SALIDO 1 o 2 } P=\frac{2}{6}=\frac{1}{3}} \cdot P(n/B \text{ y } n/A) \text{ o } (b/B \text{ y } h/A) + \underbrace{P(A)}_{\text{IMPLICA 3,4,5,6 } P=\frac{4}{6}=\frac{2}{3}} \cdot P(h/A \text{ y } h/B) =$$

$$= \frac{1}{3}\cdot\left(\frac{1}{3}\cdot\frac{6}{9} + \frac{2}{3}\cdot\frac{5}{9}\right) + \frac{2}{3}\left(\frac{5}{8}\cdot\frac{2}{4} + \frac{3}{8}\cdot\frac{1}{4}\right) =$$

$$= \frac{1}{3}\left(\frac{6+10}{27}\right) + \frac{2}{3}\left(\frac{10+3}{32}\right) = \frac{16}{81} + \frac{26}{96} = 0{,}468$$