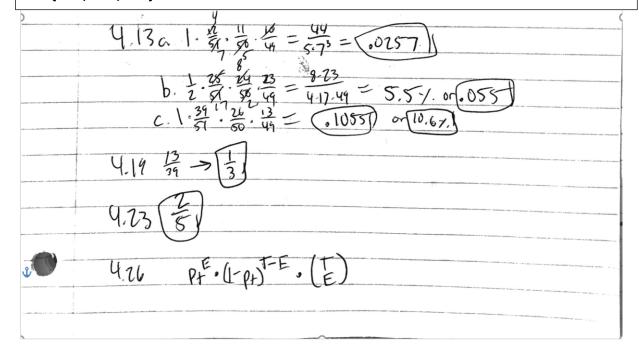


4.9 The set needs the union and intersection of all of its elements, so {HH, HT, TT} needs to be added



4.27 (26 C5) = (.273) 4.28 a. 1004.3003 = 1.046 for player 1 2004-2003 = .296 for player 3 40C7 1 PL N PZ = [.0136.] b. 10C2-30C5 40C7: = .344 for player! 20C3.20C4 = .796 for player? PIN PZ = (102) P(n lands) P1 P(22>P1)=1,0416:109 C 0 .4 + 15.8+(.318+10.9) 10.9 31.8 4.16 +: 246. (343+.318+.14) 343 15.8 +. 296. (.1764+ .343t.318+,109 1764 29.6 + .158(.994) 146 - 146 1.046(1) -(914) 15.8 .59

4:16

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4.30 independence ((AnB) = P(A) · P(B)

P(ANB) = P(A) · P(A) - P(AVB)

= .7-.68

= .05

P(A) P(B) = .1 ≠ P(ANB)

30 A and 8 are NOT independent

4.3 a * P(red) = 24 P(q) = 4 P(red q) = 20 P(red) . P(q) = 96 P(red) . P(q) = 46 No, they are not independent.

b. P(black) = \$6.

p(k) - \frac{2}{50}

P(b k) = \frac{2}{50} \neq \frac{52}{2500}

No, not interestent

4.37a. 9C6 - 2,6 ×105)

4.40 a.
$$P(K) = .7$$

b $P(R|K) = |$

c $P(K|R) = P(R|K)P(K) = .7 \cdot 1$
 $P(R) = P(R|K)P(R) = .7 \cdot 1$
 $P(R) = P(R|K)P(R) = .7 \cdot 1$
 $P(R|K) = .7 \cdot 1 \cdot 1 \cdot 3$
 $P(K|R) = .7 \cdot 1 \cdot 1 \cdot 3$

b $P(K|R) = .7 \cdot 1 \cdot 3$

c $P(K|R) = .7 \cdot 1 \cdot 3$
 $P(K|R) = .7 \cdot 1$