9444216

Subject: Date:

Q4:

n = 21, 222, -- , 2n

PLYIX) = PCX/Y) PCY)

p(n)

11122, 43 = yes, yes, yes, ye

P(yes | N1, N2, N3) = P(N1, 12, N3 | yes) x P(yes)

= P(n, 1 yes) x p(n2 | yes) x p(yes) x p(yes)

P(x) P(N2) P(V3)

 $= \frac{2}{5} \times \frac{4}{5} \times \frac{3}{5} \times \frac{1}{2} = 464$ $= \frac{1}{2} \times \frac{3}{5} \times \frac{1}{2}$

P(No | 21,921,9) = (P(21,1 NO) × P(21,1 NO) P(NO) P(NO)

P(n) x P(n2) x p(n3)

 $\frac{3}{5} \times \frac{2}{5} \times \frac{2}{5} \times \frac{1}{2} = 0/32$ $\frac{1}{5} \times \frac{3}{5} \times \frac{1}{5} \times \frac{1}{5} = 0/32$

So P(yes | 21,0 2000) > P(No) 21,0200)

لحنکال فردسرماخرردل دارد.