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#48
3red 2whte
take a soll, put it back with another ball of the same colon. Take 2nd Ball
(4). P(2+1=w)=?
(b). 17(1st=red/2nd=w)=?
S_{p|n}. P(a). P(2^{rd}=w)=P(2=w,l=w)-l
                          +17(2=W/=+)
                      = P(2=w | 1=w) P(1=w)
                        +P(2=W/Er)P(1=r)
                       (b). P(Er|2w) = \frac{P(Er,2=w)}{P(2=w)} = \frac{P(2=w)Er)P(2=r)}{P(2=w)} = \frac{1/5}{2/5} = \frac{1}{2}
#62. P(A|E)>P(B|E), P(A|E')>P(B|E'). Show P(A)) P(B)
Soln:
    P(A)=P(ANE)+P(ANE')
         = P(AIE)PE) +PAIE')P(E')

V

>P(B/E')
         >P(BIE)
          > P(B/E)P(E) + P(B/E)P(E)
          = P(B(E)+P(B)= +P(B).
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#68. A indep of B, B is indep. of C.

is A is indept of C? X

roll a die

$$A = \{1.3.5\}$$

 $B = \{2.4.6\}$
 $C = \{=1.2\}$