Ex 12E

Tuesday, 26 February 2019 10:08 AM

15/ P(==1 jackpot) >0.98 1 - P(< 1 jackpot) >0.98  $1 - \left(\frac{59}{62}\right)^{2} > 0.98$ ( 59) < 0.02 log ( 5) < log 0.02  $n\log(\frac{59}{60}) < \log 0.02$  $n > \frac{\log 0.02}{\log(\frac{59}{60})}$ n > 232.7n= 233

16/b) 
$$P(match on last day) = 5x \frac{8}{10}x \frac{7}{9}x \frac{5}{9}x \frac{5}{7}x \frac{4}{6}x \frac{3}{5}x \frac{2}{4}x \frac{1}{2}$$
  
 $= \frac{1}{9}$   
c)  $P(match on 3nd day) = \frac{1}{9}$   
d)  $P(match - first two mornings) = 1x \frac{1}{9}x (x \frac{1}{7})$   
 $= \frac{1}{63}$   
e)  $P(match every marning) = 1x \frac{1}{9}x \frac{1}{$