

Feb 19-8:47 AM

More on Conditional Probabilities:

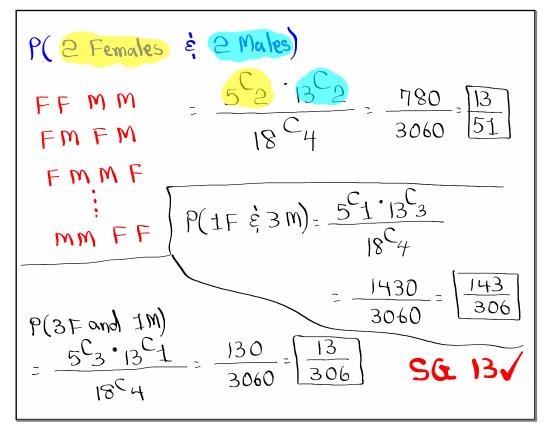
$$P(A) = .75$$
 $P(B) = .6$ $P(A \text{ cand } B) = .5$
 $P(A) = 1 - P(A)$ $P(A)$ $P(B) = P(A \text{ and } B) = .55$
 $P(A) + P(B) - P(A \text{ and } B) = .55$
 $P(A \text{ only}) = .75 - .5 = .25$
 $P(B \text{ only}) = .6 - .5 = .1$
 $P(A \text{ only}) = .6 - .5 = .1$
 $P(A \text{ only}) = .6 - .5 = .1$
 $P(A) = \frac{P(A \text{ and } B)}{.25(.5)} = \frac{.5}{.15}$
 $P(B|A) = \frac{P(A \text{ and } B)}{.75} = \frac{.5}{.661} = \frac{.833}{.833}$

P(HB) = .8P(FF)=.5P(FF-HB)= .6 $I) P(\overline{HB}) = 1 - P(HB) = 0.2$ P(HB und FF) P(FF|HB)= P(HB a) P(FF) = 1 - P(FF) = 0.5•6= P(HB and FF) Cross-multiply 3) P(HB and FF) P(HB and FF)=(6)(8) =.48 HB FF 4) Venn Diagram .02 •32 (.48 .8-.48=.32 ۹. .5-.48 = .02 Total =1 5) P(HB OR FF) = P(HB) + P(FF) - P(HB and FF) = .8 + .5 - .48 = [.82] 6)P(HBIFF) $\frac{P(HB \text{ and } FF)}{P(FF)} = \frac{.48}{.5} = \frac{.96}{.5}$

Mar 22-7:26 AM

n=18 5 Females, 13 Males Select 4 people for the to we need r=4 morning shift P(at least I Female)= 1 - P(No Females) =1 - P(AN Males) FFFF $=1-\frac{50.134}{50.134}$ Some F 18^C4 MMM $=1-\frac{715}{3060}$ P(at least 1 Male) =]_P(NO Math) = <u>469</u> 612 FFFF Some F =1-PLAN Females Some M 54.130=1-5 MMMM 1864 original Answer was not subtracted 611 .998 612 from 1 correct ANS.

Mar 22-7:39 AM

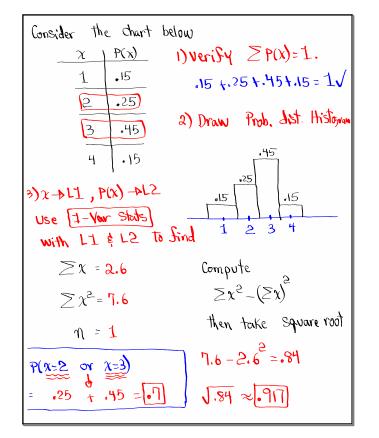


Mar 22-7:49 AM

Complete the chart below

$$\frac{x + P(x) + xP(x) + x^{2}P(x)}{1 + 2 + 2 + 2} = \frac{1}{2} + \frac{2}{2} +$$

Mar 22-8:07 AM



Mar 22-8:18 AM