P(Am/B) = P(B/An) P(Am)

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P(Am/B) a). P(M) = ZP(M/Fi)P(Fi)=P(M/Fi)P(Fi)+P(M/F2)P(F2) $P(M) = (\frac{3}{5})(\frac{3}{5}) + (\frac{1}{4})(\frac{3}{5}) = \frac{9}{25} + \frac{1}{10} = \frac{90}{250} + \frac{25}{250} = \frac{115}{250}$ $P(M) = \frac{115}{350} = \frac{23}{50}$ b). $P(H/F_2) = \frac{P(H \cap F_2)}{P(F_2)} = \frac{P(F_2 \cap H)}{P(F_2)}$ P(F2NH)= P(H/F2)P(F2) ||P(H/F2)=75=7 P(F2NH)= 13 / (2) 6 - 3 ||P(H/F2)=75=7 C). P(F2/M) = P(M/F2)P(F2) = P(M/F2)P(F2)
P(M) $P(F_2/M) = 4 \cdot (\frac{2}{5}) = \frac{50}{23} \cdot \frac{2}{20} = \frac{5}{23} \cdot \frac{2}{2} = \frac{5}{23}$