

10.5 pg. 721 # 3-33 odd, 37, 39

3.) $(0.4)(0.6) = 0.24$ 5.) $(0.25)(.8) = 0.2$ 7.) 0.75
 $P(B) = 0.8$

9.) $P(G) \cdot P(B) = \frac{4}{16} \cdot \frac{3}{16} = \frac{12}{256} \approx 0.047$ 11.) $\frac{3}{16} \cdot \frac{5}{16} = \frac{15}{256} \approx 0.059$
 $= \frac{3}{64}$

13.) $\frac{3}{16} \cdot \frac{4}{16} \cdot \frac{5}{16} = \frac{60}{4096} \approx 0.015$ 15.) A 17.) 0.35 19.) 0.75
 $\rightarrow \frac{15}{1024}$

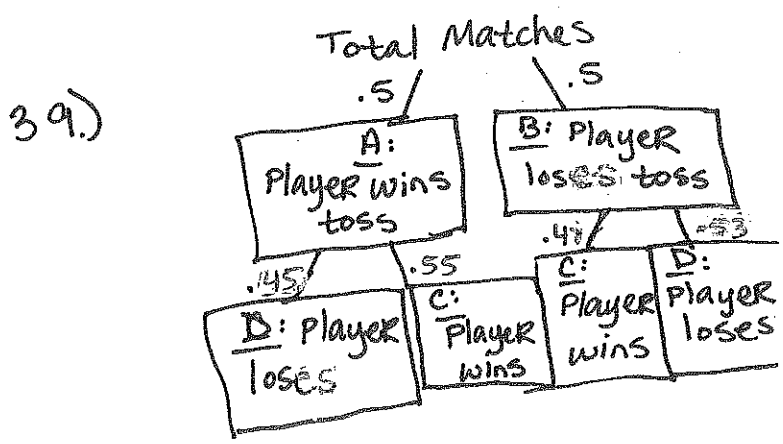
21.) 0.9 23.) $\frac{1}{7}$ 25.) $\frac{7}{20} = \frac{1}{7}$
 $P(5|8) = \frac{7}{20}$

27.) a.) $\frac{4}{52} \cdot \frac{4}{52} = \frac{16}{2704} = \frac{1}{169}$ 29.) a.) $\frac{1}{169}$
 b.) $\frac{4}{52} \cdot \frac{4}{51} = \frac{16}{2652} = \frac{4}{663}$ b.) $\frac{4}{663}$

31.) a.) $\frac{13}{52} \cdot \frac{13}{52} \cdot \frac{13}{52} = \frac{1}{64}$
 b.) $\frac{13}{52} \cdot \frac{13}{51} \cdot \frac{12}{50} = \frac{13}{850}$

33.) They should be multiplied, not added. $P(A \text{ and } B) = (0.4)(0.5) = 0.2$

37.) ~~not coming early~~
 $P(\text{come early}) = 1 - P(\text{not come early})^5$
 $= 1 - (.72)^5 \approx .81$
 $\approx \boxed{81\%}$



$P(C) = P(A \cap C) + P(B \cap C)$
 $= P(A) \cdot P(C|A) + P(B) \cdot P(C|B)$
 $= (.5)(.55) + (.5)(.47)$
 $= 0.51$ $\boxed{51\%}$