



Conditional Probability - SOLUTIONS

1. $\frac{2}{3}$
2. $P(A|B) = \frac{2}{5}$ and $P(B|A) = \frac{1}{3}$
3. $\frac{3}{8}$
4.
 - i. 7
 - ii. $\frac{9}{10}$
 - iii. $\frac{7}{19}$
5.
 - i. $\frac{5}{24}$
 - ii. $\frac{5}{12}$
 - iii. $\frac{7}{12}$
 - iv. $\frac{3}{4}$
 - v. $\frac{7}{10}$
6.
 - i. 0.18
 - ii. 0.66
 - iii. $\frac{3}{8}$
7. $P(A \cap B) = \frac{1}{6}$ and $P(B) = \frac{5}{12}$
8. $\frac{77}{185}$
9. $\frac{17}{31}$
10. $\frac{3}{4}$

