## Conditional Probability Worksheet 3

Use the following probabilities to answer questions 1-5: $P(A)=0.25, P(B)=0.15$, $P(C)=0.30, P(D)=0.2, P(E)=0.40$.

1. If $P(A$ and $E)=0.10$, are events $A$ and $E$ independent?

For questions 6-10, determine the $P(A$ and $B)$ that would show that events $A$ and $B$ are independent events.

Yes.
6. $P(A)=0.50, P(B)=0.50$.
2. If $P(A$ and $B)=0.00$, are events $A$ and $B$ independent?
7. $P(A)=0.25, P(B)=0.15$.
3. If $P(A$ and $C)=0.15$, are events $A$ and $C$ independent?
8. $P(A)=0.17, P(B)=0.3$.
4. If $P(B$ and $D)=0.03$, are events $B$
9. $P(A)=1.00, P(B)=0.50$. and $D$ independent?
10. $P(A)=0.9, P(B)=0.2$.
5. If $P(C$ and $E)=0.20$, are events $C$ and $E$ independent?
©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.
http://www.shmoop.com/calculus/
Shmoop will make you a better lover (of literature, math, life...)

