Stage 5 – Evidence Given Hypothesis

(5a) Consider a hypothesis and a piece of evidence, say $H1$ and $E1$. Estimate the conditional probability $P(E1|H1)$.

- NB: You may need to look for suitable statistics or additional information to arrive at an estimate. Look up *www.rootclaim.com* for examples.
- Keep in mind that $P(E1|H1)$ is different from $P(H1|E1)$.

(5b) Do the same for any combination of hypothesis and piece of evidence. With three hypotheses and three pieces of evidence, you should assess:

$P(E1|H1), P(E1|H2), P(E1|H3)$

$P(E2|H1), P(E2|H2), P(E2|H3)$

$P(E3|H1), P(E3|H2), P(E3|H3)$

(5c) Record the difficulties you have encountered in assigning these probabilities and how you addressed them. Be specific.