3.2.4

DRILL – EXERCISES IN PROBABILITY

1. Probability of getting head = probability of getting tails = 0.5

Probability of getting HTTH, HHHH, TTHH = 0.5\*0.5\*0.5\*0.5 = 0.0625

2. Prob of choosing man = 21/45

Prob of chosing woman = 24/45

Prob of not choosing man = Prob of chosing woman = 24/45

3. Prob that Bernice will travel by plane = 0.1

Prob of plane crash = 0.00005

Prob that Bernice will be in plane crash = 0.1 \* 0.00005 = 0.000005 i.e. 0.0005%

4. The conclusion drawn does not take following things into consideration:

Every time user clicks on the link on website that link, he may be directed to other website. That is not correct as it is still counted as time spent on company website. Also, the decision is based on 5% chance. Some people who are not shown survey may spend much more time on the website.