Quiz 2

Part I: The probability that a US citizen has travelled to Germany is 0.17, to Australia is 0.10, & to both is 0.06. Use this information for the following problems.

1. Draw the information into a Venn Diagram below:

2. What is the probability that a US citizen has travelled to neither Germany nor Australia?

3. If someone has travelled to Australia, what is the probability that they have also travelled to Germany?

4. With the p for people travelling to Germany being 0.17, calculate the Standard deviation if the sample size was 1000 people.

5. Calculate the 95% Confidence Interval (Z score = 1.96) for the true proportion of US citizens travelling to Germany, and draw it’s distribution below.