

3. (2 pts) A random sample of 200 adults are classified below by sex and their level of education attained.

Education	Male	Female
Elementary	38	45
Secondary	28	50
College	22	17

If a person is picked at random from this group, find the probability that:

- a. A person is female, given that the person has a secondary education.

78 total have secondary ed

$$\Rightarrow P(\text{female}|\text{secondary}) = \frac{50}{78} \approx \underline{\underline{.641}}$$

- b. The person does not have a college degree, given that the person is male.

Note! People in Elementary & secondary category do not have college degree

\Rightarrow 88 males total

\Rightarrow 38+28 do not have college degree

$$\Rightarrow P(\text{not college}|\text{male}) = \frac{66}{88} = \underline{\underline{.75}}$$