MBC 638 10/9/19

What proportion of male students
like living the Syracuse?

P(like | male) =

males like Syr. # total

= P(Male & Like)

P(Male)

Conditional probability

Independent events A and B are independent if P(A|B) = P(A)

$$P(A \text{ and } B) = P(A) \cdot P(B)$$

$$Why ?????$$

$$P(A \text{ and } B) = \frac{P(A \text{ and } B)}{P(B)} = P(A)$$

$$= \frac{P(A) \cdot P(B)}{P(B)} = P(A)$$