



Feb 19-8:47 AM

Suppose
$$P(A) = .5\%$$

1) write $P(A)$ in decimal.

 $.5\% = .5(.01) = .005$

2) write $P(A)$ in reduced fraction.

 $.5\% = \frac{.5}{100} = \frac{1}{200}$

3) Sind $P(\overline{A})$ in $\%$.

 $P(\overline{A}) = 1 - P(A) = 1 - .5\%$
 $= 1 - .005 = .995 = .995$

Mar 6-7:25 AM

Addition Rule:
$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

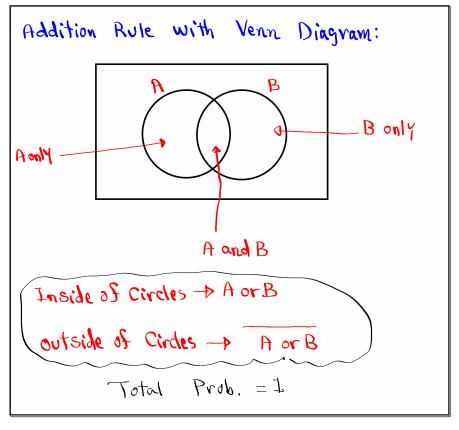
Key word: OR

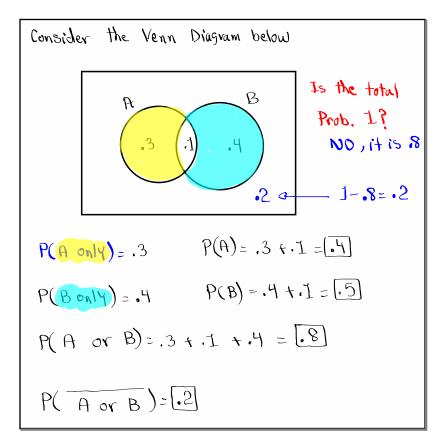
Ex: $P(A) = .6$, $P(B) = .7$,

Single Action event

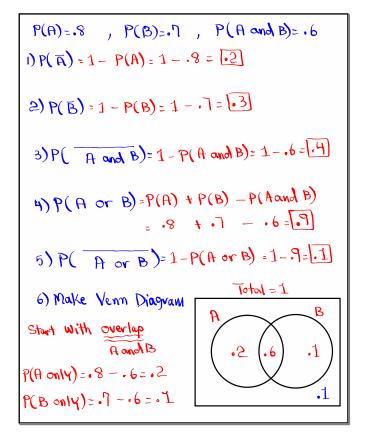
 $P(A \text{ and } B) = .5$
 $P(\overline{A}) = 1 - P(A) = 1 - .6 = .4$
 $P(\overline{B}) = 1 - P(B) = 1 - .7 = .3$
 $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
 $= .6 + .7 - .5 = .8$
 $P(\overline{A} \text{ or } B) = 1 - P(A \text{ or } B)$
 $= 1 - .8 = .2$

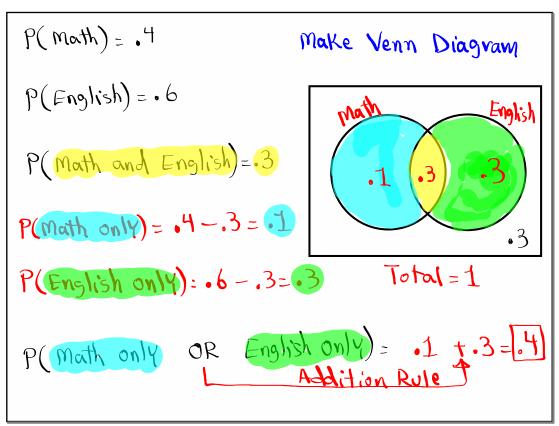
Mar 6-7:36 AM



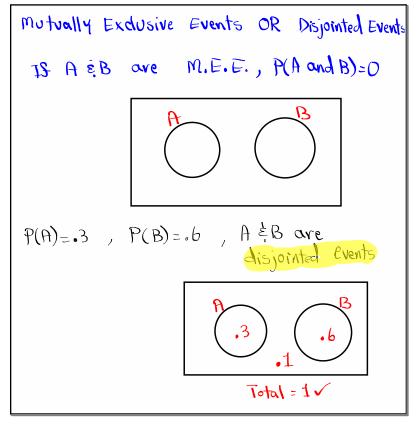


Mar 6-7:44 AM

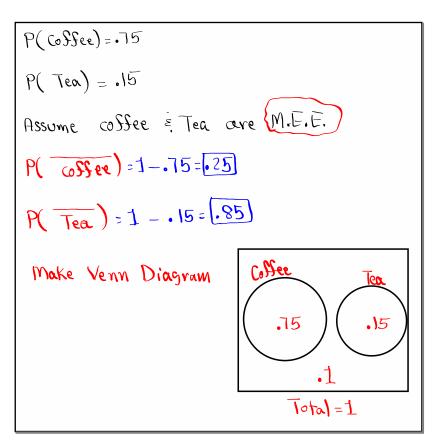




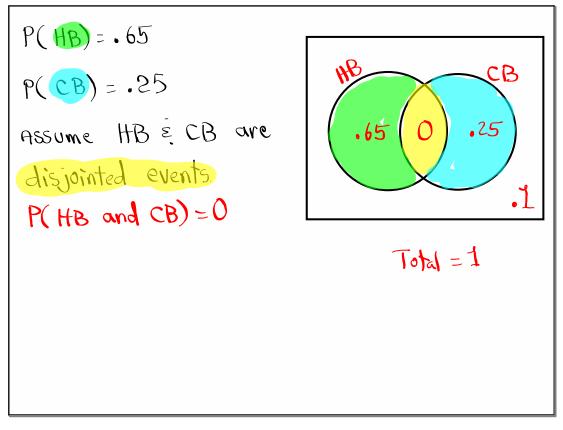
Mar 6-8:00 AM

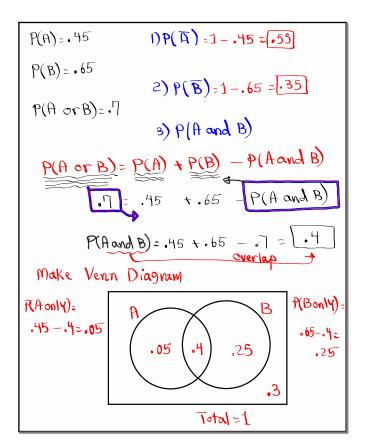


Mar 6-8:08 AM



Mar 6-8:12 AM





Mar 6-8:20 AM