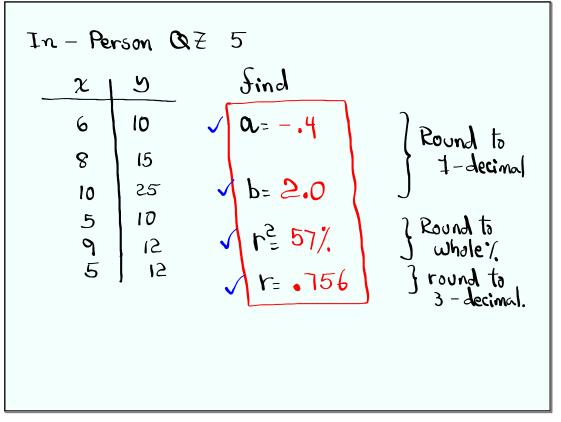


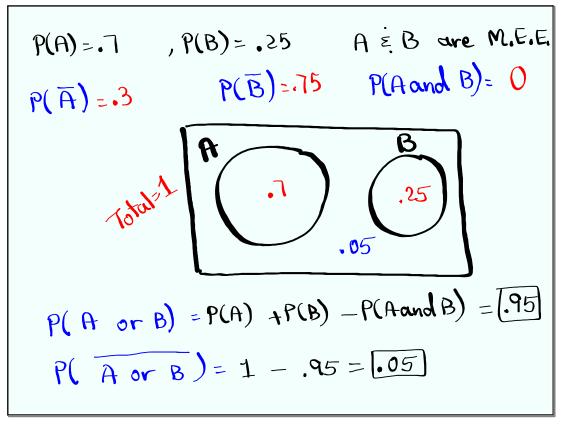
Feb 19-8:47 AM



Jul 3-7:00 PM

Suppose
$$P(A) = .35$$
, $P(B) = .45$, $P(A \text{ and } B) = .2$
1) $P(\overline{A}) = 1 - P(A) = .65$
2) $P(\overline{A} \text{ and } B) = 1 - P(A \text{ and } B) = .8$
3) $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
= .35 + .45 - .2 = .6
4) Make Venn Diagram
.35 - .2 = .15
.45 - .2 = .25
P(A only OR Bonly) = .15 + .25 = .4

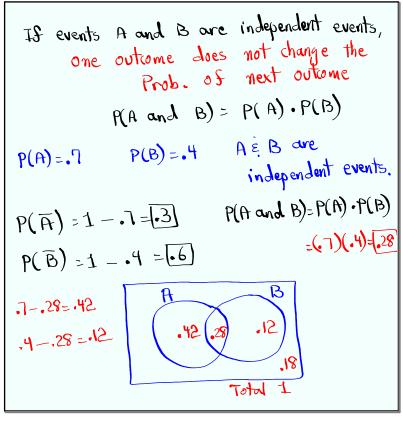
Jul 8-4:30 PM



Jul 8-4:36 PM

```
Multiplication Rule
Keyword AND
Multiple Action Event
                     HH
Slip a fair Coin twice
                     TH
                     HT
                      TT
having 3 children
                      BBB
                              GBB
                      BBG
                              & Bt
                               GGB
                       BCB
                               GGG
                       BGG
   Draw 2 Cards
                   FF
   from a deck of
                   FF
                     FF
    playing ands
```

Jul 8-4:40 PM



Jul 8-4:45 PM

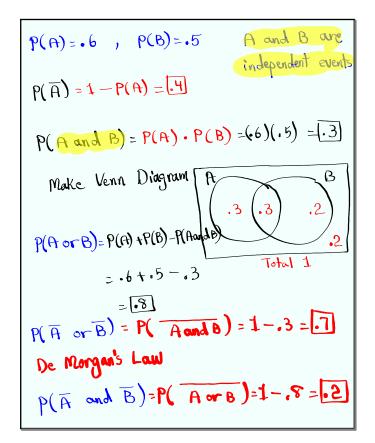
Jul 8-4:50 PM

A quiz has 4 questions, True / false only.

You make random guesses,

$$P(AII Correct) = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$= \frac{1}{16} = .0625 \approx .063$$



Jul 8-5:01 PM

Suppose Prob. that any student pass a math class is .6.

Randomly Select 3 Students,

P(AII Pass) = (.6)(.6)(.6) = .216

P(None of Pass) = (.4)(.4)(.4) = .064

exam on next day.

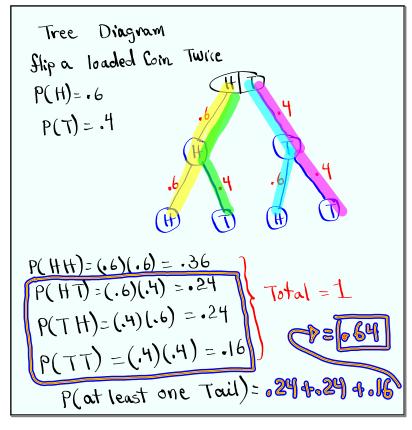
One Suggest that let's Say we had a flat tire.

Pros. agreed for lote exam, put them in different rooms and asked that what tire was flat.

P(all picked Same tire):

\[
\frac{4}{4} \cdot \frac{1}{4} \cdot \fra

Jul 8-5:12 PM



Jul 8-5:18 PM