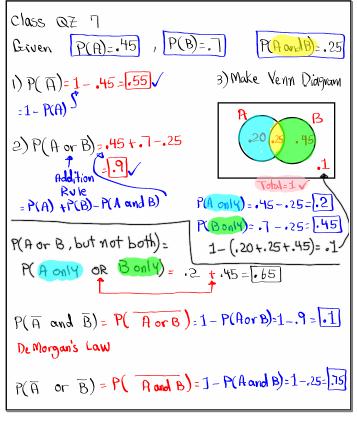


Feb 19-8:47 AM



Jun 21-11:37 AM

Suppose
$$P(A) = .15$$
, $P(B) = .65$ and $P(B) = .65$ and $P(B) = 1 - P(A) = .85$

3) $P(B) = 1 - P(B) = .35$

4) Make Venn Diagram

A propose $P(A) = .85$

4) Make Venn Diagram

A propose $P(B) = 1 - P(B) = .35$

B propose $P(B) = 1 - P(B) = .35$

3) $P(A \text{ and } B) = 0$

Total = 1

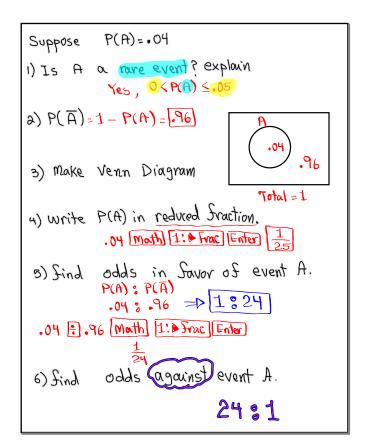
1 - (.15 + .65) = .2

5) $P(A \text{ or } B)$

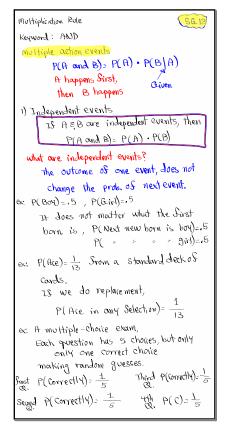
= $P(A) + P(B) - P(A \text{ and } B) = .15 + .65 - 0 = .8$

Jun 22-7:42 AM

Jun 22-7:49 AM



Jun 22-7:55 AM



Jun 22-8:10 AM

Given
$$P(A)=.2$$
, $P(B)=.5$

A & B are independent events

1) $P(\overline{A})=.8$

2) $P(\overline{B})=.5$

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

$$= (.2)\cdot (.5)=.1$$

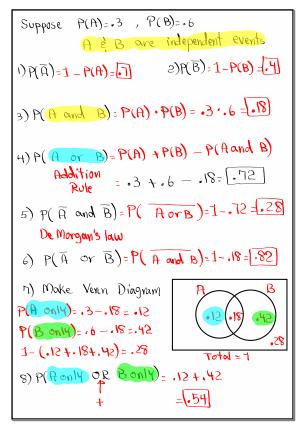
4) $P(A \text{ or } B)=P(A)+P(B)-P(A \text{ and } B)$
Addition Rule

5) Make Venn Diagram

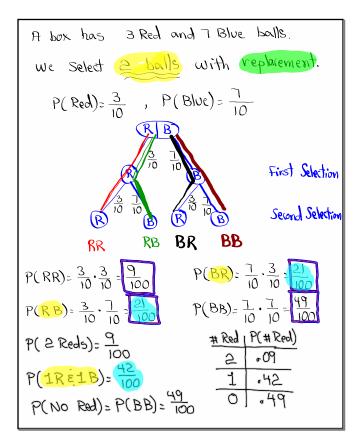
A .1 .1 .4

Total=1

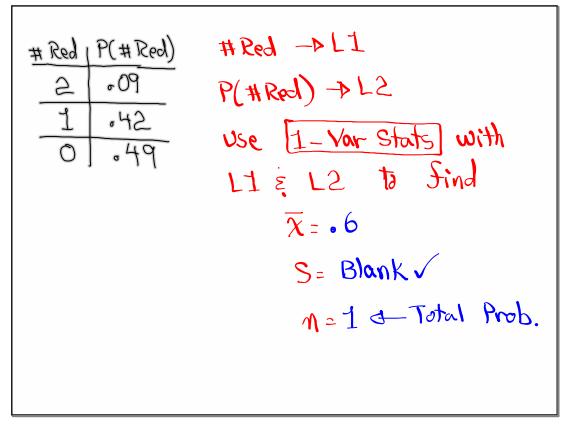
Jun 22-8:22 AM

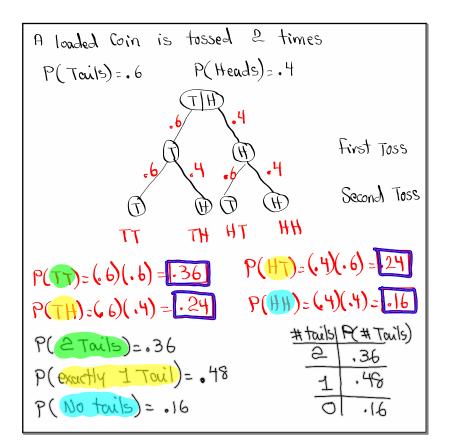


Jun 22-8:27 AM



Jun 22-8:41 AM





Jun 22-9:16 AM

tails
$$P(\# Tails)$$
 # Tails $\rightarrow L1$

2 .36

1 .48

Ol. 16

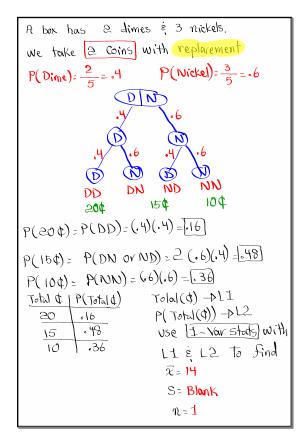
Use I-Var stats with

LI & L2 To Find

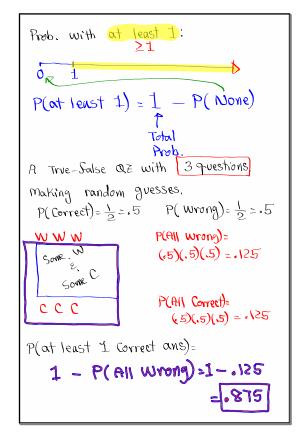
 $\overline{\chi}=1.2$

S= Blank

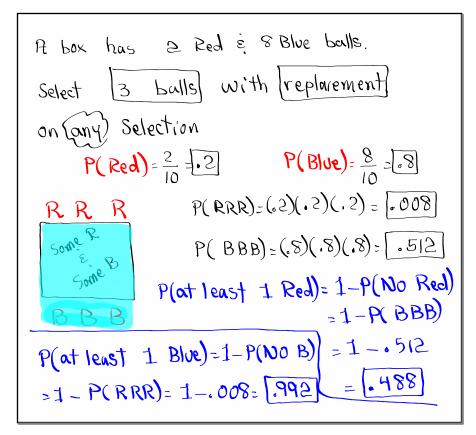
 $\eta=1$



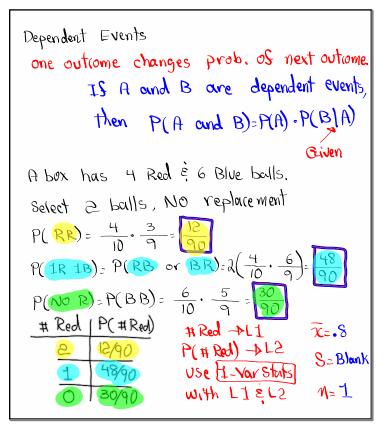
Jun 22-9:28 AM



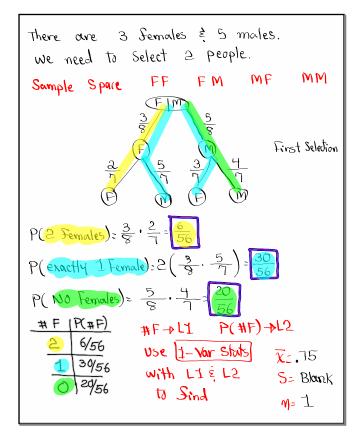
Jun 22-9:40 AM



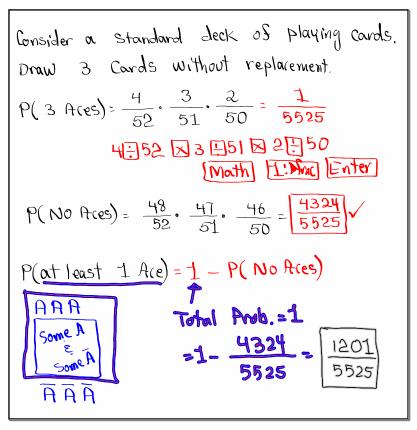
Jun 22-9:51 AM



Jun 22-10:25 AM



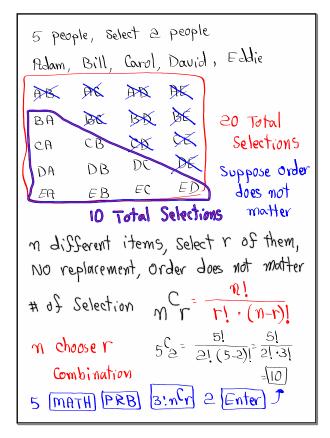
Jun 22-10:36 AM



Jun 22-10:48 AM

```
Counting Method:
Select a number from 0 to 9.
    0,1,2,3, ---,9
          10 choices.
        2 numbers with repetition
 from 0 to 9.
         01
  00
                12 ---- 19
         11
   0F
                92 - - - - 99
         10 choices for first Selection
                 & Second
                 10 · 10 = 100 Total
                            selections
 Your ATM card Passcode
   10 10 10 10 = 10000 Chaices
                        with repetition
         <u> 8</u> P
   10
                         repetition
                           5040
```

Jun 22-11:15 AM



Jun 22-11:21 AM

Jun 22-11:29 AM

Class QZ 8

Given
$$P(A)=.4$$
, $P(B)=.8$, $P(A \text{ and } B)=.3$

Find

1) $P(A \text{ or } B)=.4+.8-.3=.9$

2) $P(\overline{A} \text{ and } \overline{B})$

3) $P(\overline{A} \text{ or } \overline{B})$

P($\overline{A} \text{ or } B$)

1-.9=.1 = P($\overline{A} \text{ and } B$)

1-.3=.1