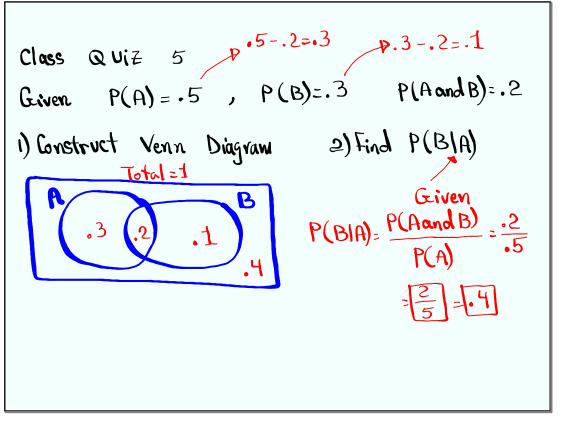
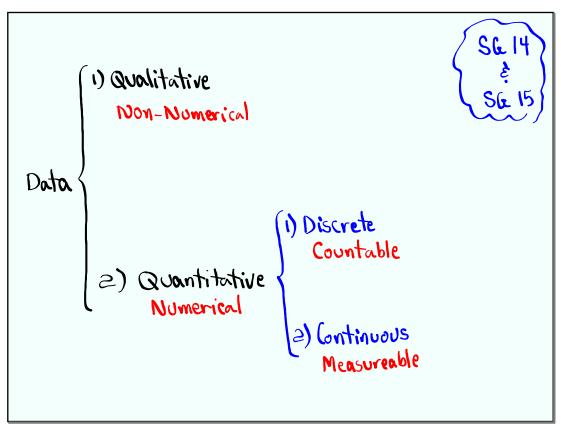


Feb 19-8:47 AM



Mar 26-1:45 PM



Mar 26-1:54 PM

Discrete Random Variable

Let x be a discrete random Variable with

Prob. dist. P(x).

Prob. dist. provides Prob. of all possible

Outcomes.

Prob. dist. can be in the form of

a table, graph, Some formula, or we

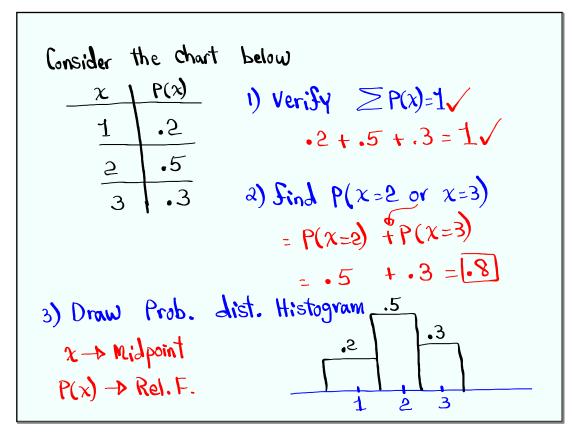
Simply find Prob. of all outcomes.

1)  $0 \le P(x) \le 1$ 2) P(x) = 1  $\implies$  Sore event

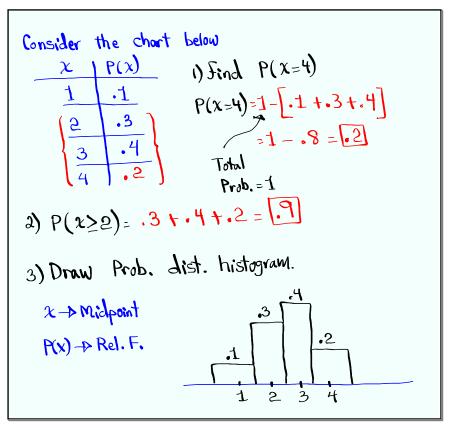
4)  $0 < P(x) \le .05$   $\implies$  Rore event

5)  $\ge P(x) = 1$ 

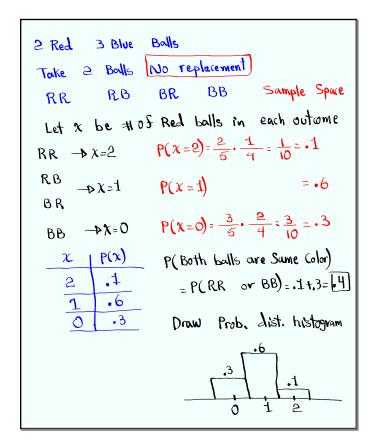
Mar 26-1:57 PM



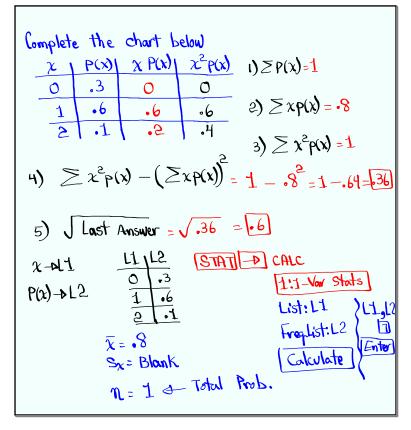
Mar 26-2:03 PM



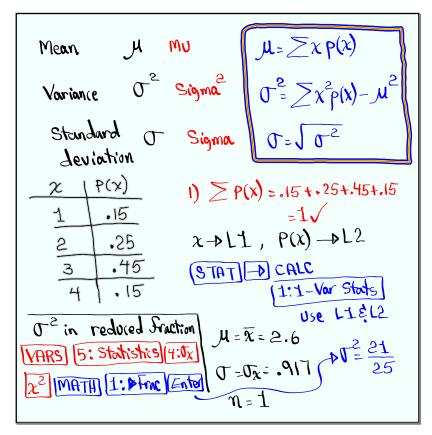
Mar 26-2:07 PM



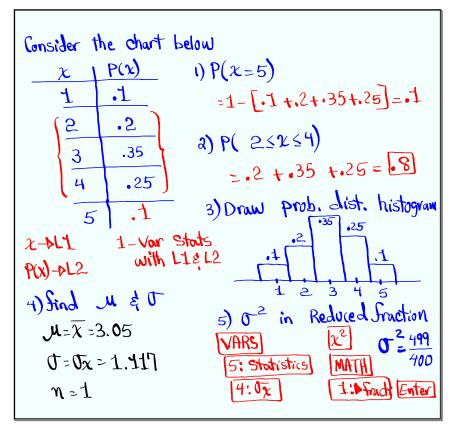
Mar 26-2:13 PM



Mar 26-2:21 PM



Mar 26-2:32 PM

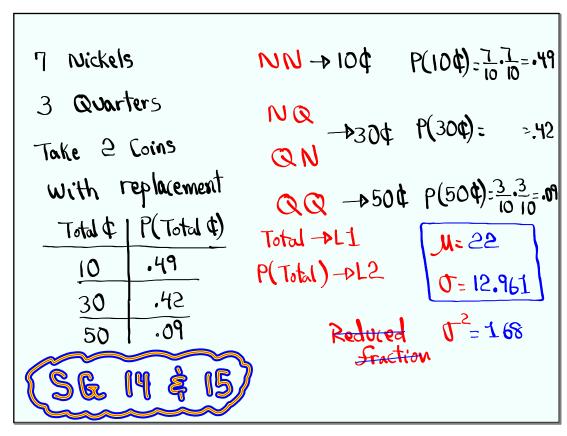


Mar 26-2:42 PM

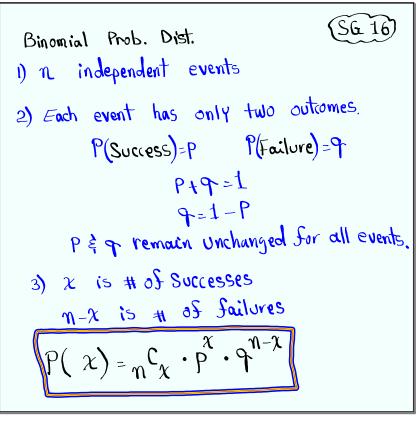
$$\mu \approx 3$$
 68%. Range  $\mu \pm 0$   $= 3 \pm 1 \Rightarrow 2 \pm 0 \pm 4$   $95\%$ . Range  $\mu \pm 20$  Usual Range  $= 3 \pm 20$ ) =  $\mu \pm 30$   $= 40$ 

Mar 26-2:51 PM

Mar 26-3:00 PM



Mar 26-3:13 PM



Mar 26-3:22 PM

```
A loaded Coin is tossed [10 times]

Success is to land tails.

P(Land tails on each toss) = .4

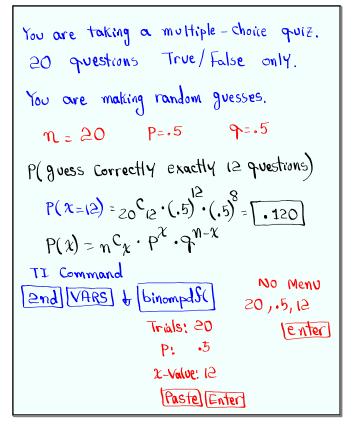
m = 10  P = .4  q = .6

P(land tails exactly 3 times)

P(\chi = 3) = \binom{2}{3} (.9) (.6)

Enter [.215]
```

Mar 26-3:28 PM



Mar 26-3:35 PM