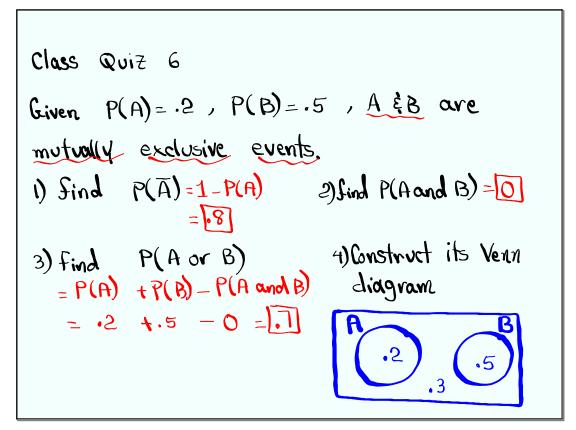


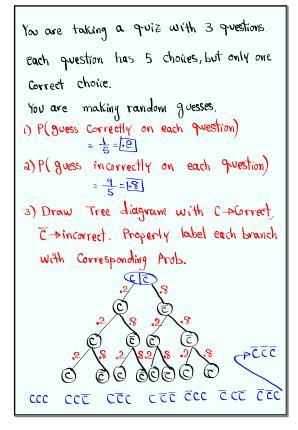


Feb 19-8:47 AM



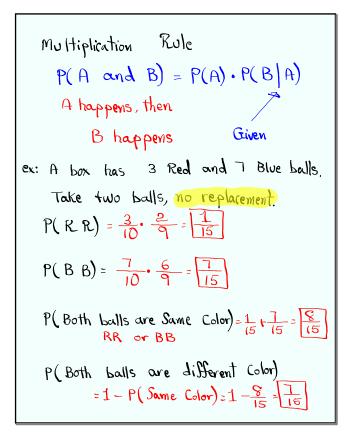
Apr 11-7:57 AM

Apr 11-8:13 AM



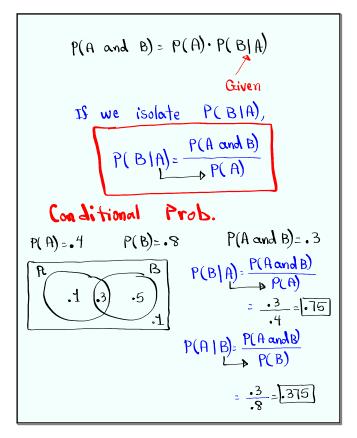
Apr 11-8:19 AM

Apr 11-8:29 AM

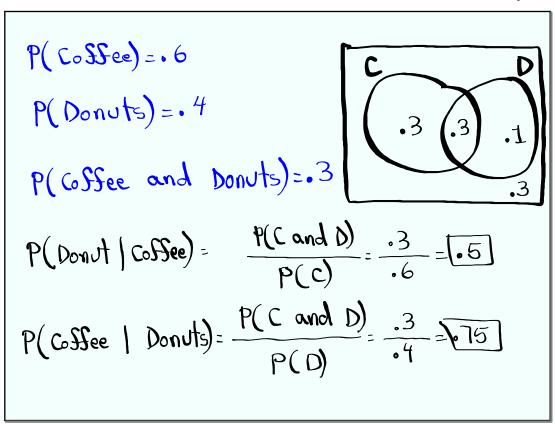


Apr 11-8:37 AM

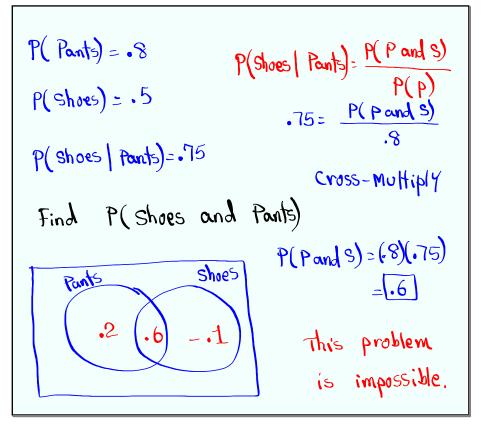
Apr 11-8:44 AM



Apr 11-9:04 AM



Apr 11-9:10 AM



Apr 11-9:16 AM

P(Pants) = .8

P(Shoes | Pants) = 
$$\frac{P(P \text{ and } S)}{P(P)}$$

P(Shoes | Pants) = .6

P(Shoes | Pants) = .6

Cross-Multiply

Find P(Shoes and Pants).

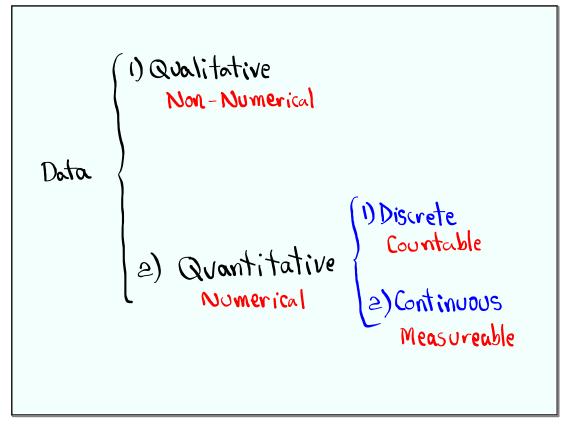
8-.48=.32

P(P and S) = .6)(.8) = .48

P(P and S) = .6)(.8) = .48

Total = 1

Apr 11-9:16 AM



Apr 11-9:31 AM

Let x be a discrete random variable with prob. dist. of P(x).

what is prob. dist.?

It is a way to give/find prob.

of all possible outcomes in the Sample Space.

what is a Sample Space?

It is a complete list of all Possible outcomes.

Prob. dist could be

1) in the form of a graph

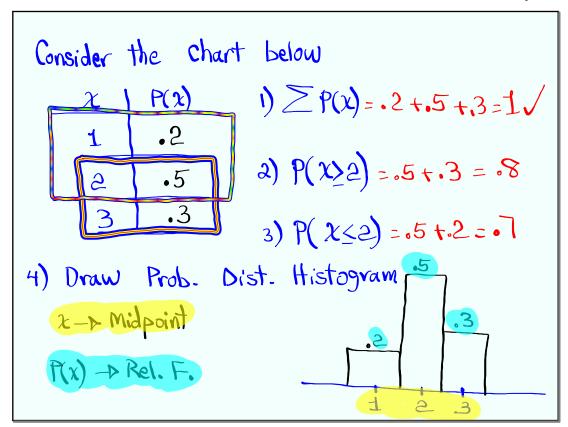
3) in the form of Some formula

4) using just def. of probabilities

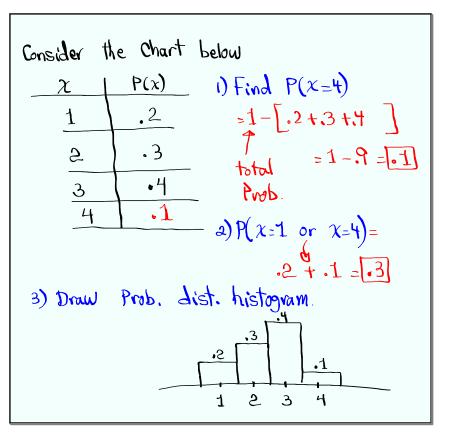
Apr 11-9:33 AM

## Some rules

- $1 \ge (x) \le 1$
- a)  $\geq P(x) = 1$
- 3) P(x) = 1 Sore event
- 4) P(x)=0  $\Longrightarrow$  Impossible event
- 5)  $0 < P(x) \le .05$  Rare event



Apr 11-9:43 AM



Apr 11-9:48 AM

Complete the chart below

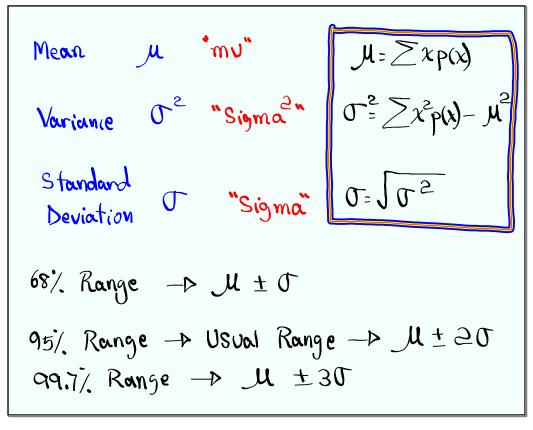
$$\frac{x}{P(x)} | \frac{x \cdot P(x)}{x \cdot P(x)} | \frac{x^2 \cdot P(x)}{x^2 \cdot P(x)} | 1) \geq P(x) = 1$$

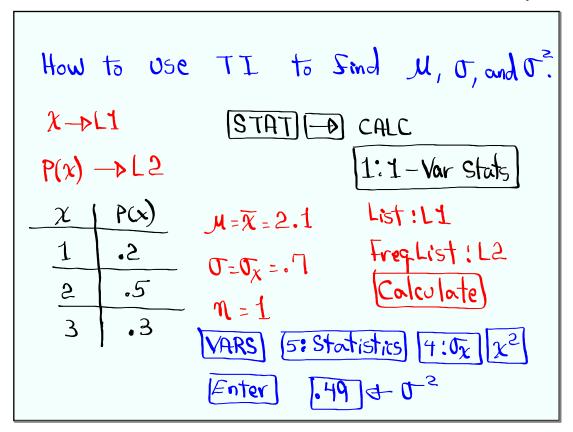
$$\frac{1}{2} \cdot \frac{2}{2} \cdot \frac{2}{2}$$

$$\frac{2}{3} \cdot \frac{3}{3} \cdot \frac{9}{2.7} = \frac{2.7}{3}$$

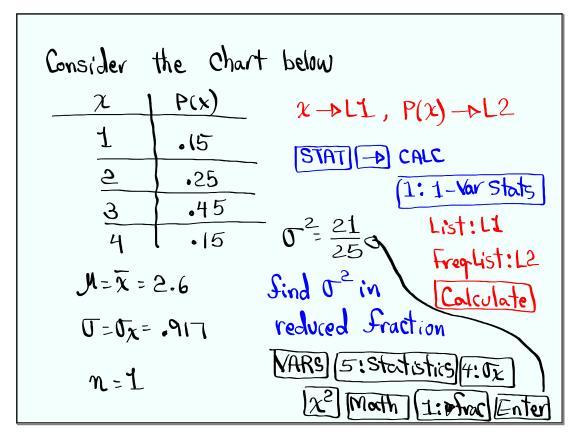
$$\frac{2}{3} \geq \frac{x^2 \cdot P(x)}{2.7} = \frac{4.9}{2.7}$$

Apr 11-9:54 AM

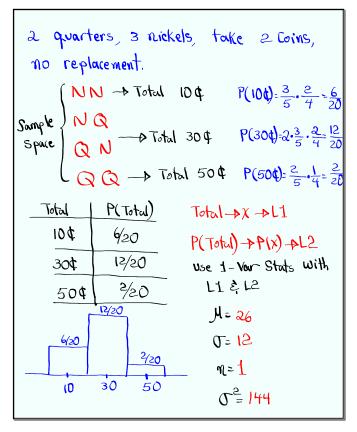




Apr 11-10:16 AM



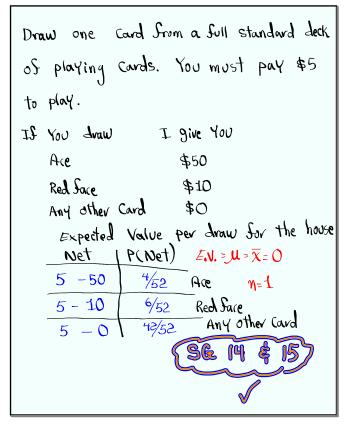
Apr 11-10:22 AM



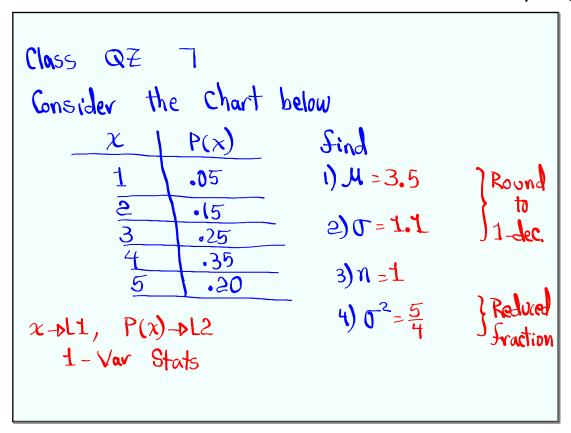
Apr 11-10:28 AM

$\frac{\text{Expected}}{M} = \overline{\chi}$	20 Students 20 tickets were Sold each ticket \$10
Net P(Net)	
\$10-\$100 1/20	one ticket is
10/	randomly drawn
\$10 -0 19/20	winner gets a Calc
'	
Net-PLI	worth \$100.
P(Net) ->LZ	I make
Expected Value = $\mathcal{L} = \overline{\chi} = 5$ \$5 Per	
$\iota$ .	
Per ticket	ticket Sold.

Apr 11-10:45 AM



Apr 11-10:49 AM



Apr 11-10:58 AM