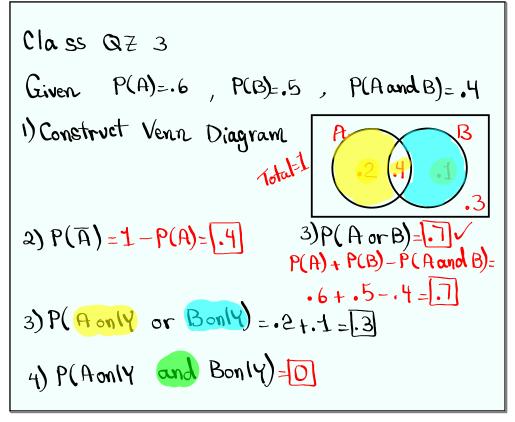
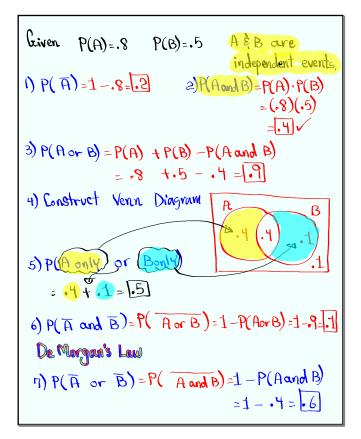


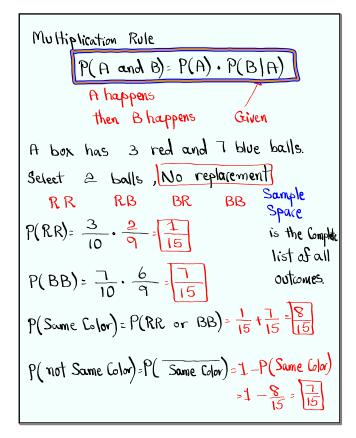
Feb 19-8:47 AM



Oct 10-11:27 AM



Oct 10-11:41 AM



Draw 3 Cards from a Standard deck of playing Cards without replacement.

1) 
$$P(AII \text{ red Color}) = \frac{26}{52} \cdot \frac{25}{51} \cdot \frac{24}{50} = \frac{2}{17}$$

2)  $P(AII \text{ face Cards}) = \frac{12}{52} \cdot \frac{11}{51} \cdot \frac{10}{50} = \frac{11}{1105}$ 

Rore event  $\approx .010$ 
 $\leq .010$ 
 $\leq .010$ 
Almost a  $= 1 - P(AAA)$ 

Almost a  $= 1 - P(AAA)$ 
Sore event  $= 1 - \frac{4}{52} \cdot \frac{3}{51} \cdot \frac{2}{50} = \frac{5524}{5525}$ 
 $= .99981...$ 
 $\approx 1$ 

Oct 10-12:05 PM

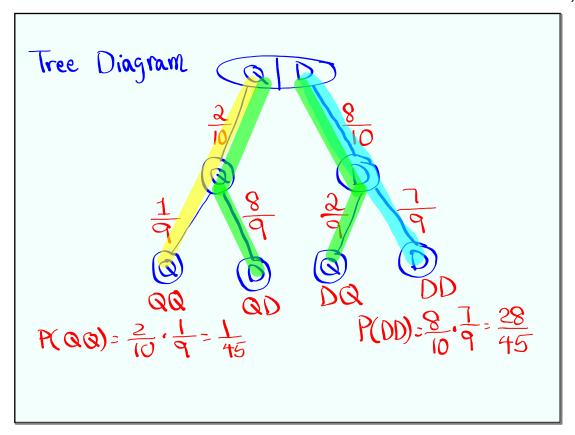
A piggy bank has 2 quarters and 8 dimes.

Take 2 Coins no replacement.

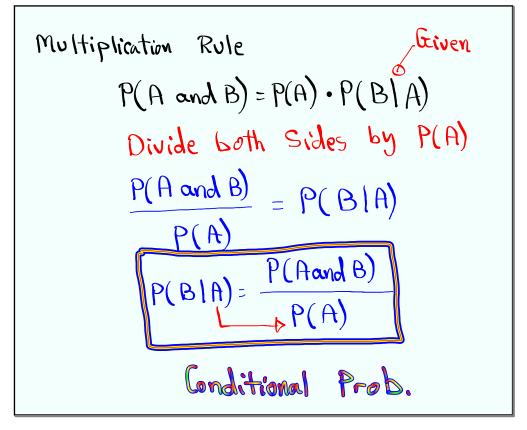
QQ QD DQ DD

Sample Space

$$P(QQ) = \frac{2}{10} \cdot \frac{1}{9} = \frac{1}{45}$$
 $P(DD) = \frac{8}{10} \cdot \frac{7}{9} = \frac{28}{45}$ 
 $P(1D1Q) = P(DQ \circ QD) = 2 \cdot \frac{8}{10} \cdot \frac{2}{9} = \frac{16}{45}$ 



Oct 10-12:20 PM



Oct 10-12:25 PM

$$P(A)=.6$$
  $P(B)=.5$   $P(A \text{ and } B)=.4$ 
 $P(B|A)=\frac{P(A \text{ and } B)}{P(A)}=\frac{.4}{.6}=\frac{4}{.6}=\frac{2}{.3}$ 
 $=(.667)$ 
 $P(A|B)=\frac{P(A \text{ and } B)}{P(B)}=\frac{.4}{.5}=\frac{4}{.5}$ 

Oct 10-12:28 PM

$$P(A) = .6$$
 $P(A|B) = .6$ 
 $P(A|B) = .8$ 
 $P(A|B)$ 

Oct 10-12:38 PM