



Feb 19-8:47 AM

Suppose
$$P(A)=.6$$
, $P(B)=.2$, $P(A \text{ and } B)=.15$
1) $P(A)=1-P(A)=.4$
2) $P(A \text{ or } B)=P(A)+P(B)-P(A \text{ and } B)=.65$
3) Construct Venn Diagram

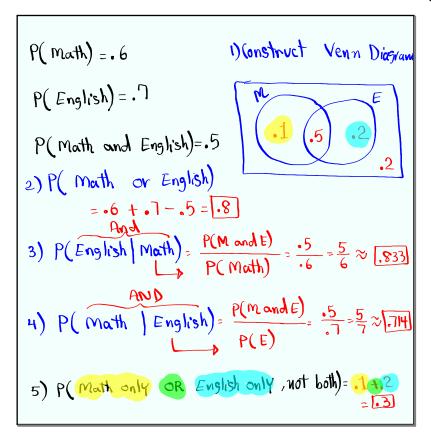
4) $P(B|A)=\frac{P(A \text{ and } B)}{P(A)}=\frac{.15}{.6}=.25$

Conditional Prob

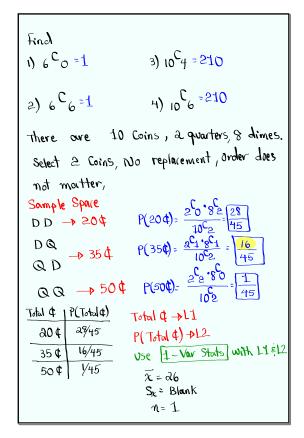
And

5) $P(A|B)=\frac{P(A \text{ and } B)}{P(B)}=\frac{.15}{.2}=.75$

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Oct 9-9:08 AM

5 Females \$ 10 Males

Select 4 people

Sample Spare P(All Females) =
$$\frac{5^{4} \cdot 10^{0}}{15^{4}}$$

= $\frac{5}{1365} = \frac{4}{273}$

P(All Males) = $\frac{50 \cdot 10^{4}}{15^{4}} = \frac{210}{1365} = \frac{2}{13}$

P(at least 1 Female) = $1 - P(No \text{ Jemales})$

= $1 - P(All Males) = \frac{272}{273}$

P(All Females)

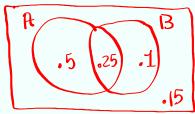
= $1 - \frac{1}{273} = \frac{272}{273}$

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Class Quiz 7

Given P(A) = .75, P(B) = .35, P(A and B) = .25

1) Construct Venn Diagram.



Oct 9-9:46 AM