Statistics Lecture 10



Feb 19-8:47 AM

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Class QZ 5

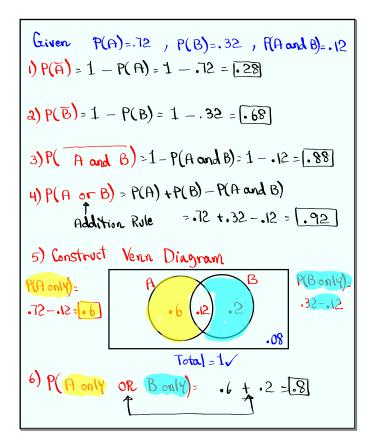
Given P(A) = .025

1) Write P(A) in % notation
P(A) = .025 (100)% = 2.5%

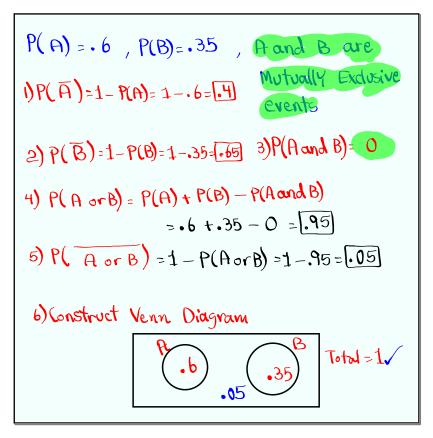
2) Write P(A) in reduced fraction
.025 Math 1: Frac Enter
3) Sind P(A) in decimal.
P(A) = 1 - P(A) = 1 - .025 = .975

Complement Rule
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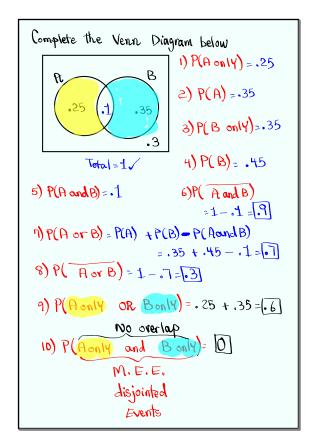
Oct 6-10:33 AM



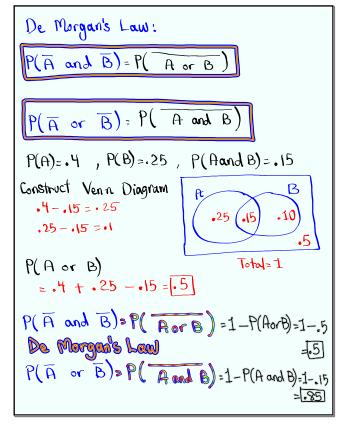
Oct 6-11:00 AM



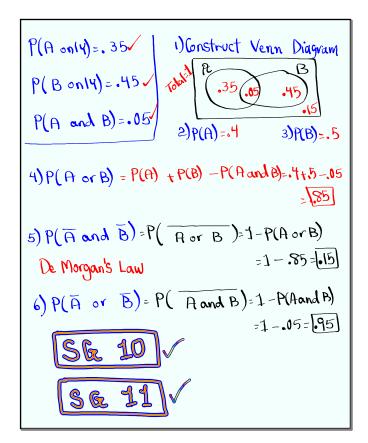
Oct 6-11:12 AM



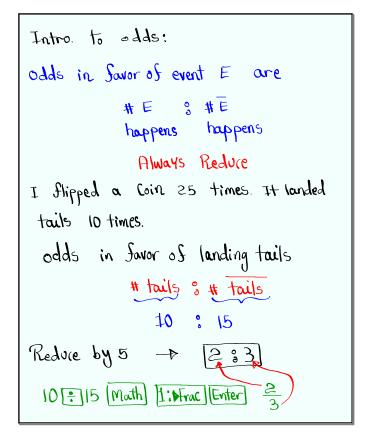
Oct 6-11:25 AM



Oct 6-11:42 AM



Oct 6-11:52 AM



Oct 6-12:04 PM

Oct 6-12:09 PM

odds in favor of event
$$E$$
 are

a $%$ b

of times

E happens

E happens

in (a+b) Total # of times

odds against E are B % a

 $P(E) = \frac{a}{a+b}$, $P(E) = \frac{b}{a+b}$

Cziven olds in Savor of event E are

3:17

1) Sind
$$P(E) = \frac{3}{3+17}$$

$$= \frac{3}{20}$$
2) Sind olds against E.

17:3

Oct 6-12:19 PM

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How to Sind odds when Prob. is given,

If we know P(E), odds in Swor of

E are P(E): P(E)

Always Simplify to whole #s.

ex: Suppose P(E) = .125

1) P(E) = 1 - .125 = .875

2) odds in Savor of event E.

P(E): P(E)

1:7

3) odds against E.

7:1
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Oct 6-12:25 PM

$$P(E) = .85$$

1) $P(E) = 1 - .85 = .15$

2) odds in Sovor of event E.

 $P(E) : P(E)$

.85 : .15

3) odds against event E.

3:17