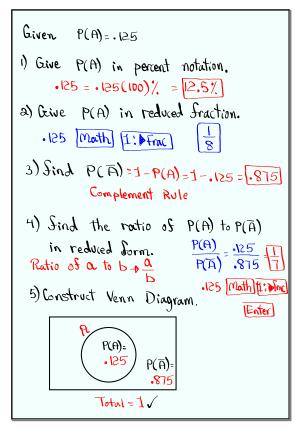
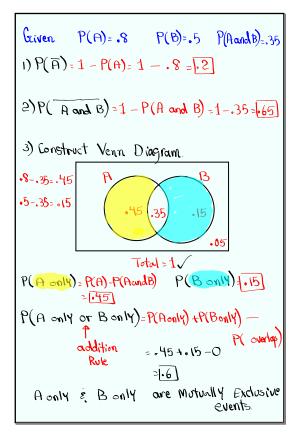


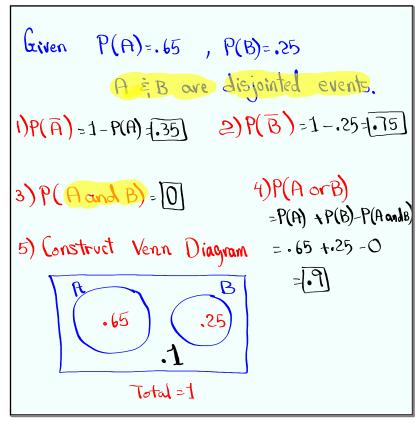
Feb 19-8:47 AM



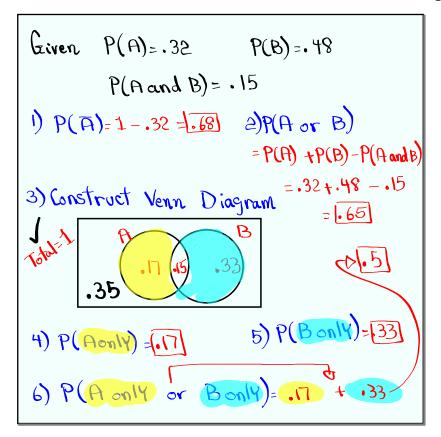
Oct 3-11:39 AM



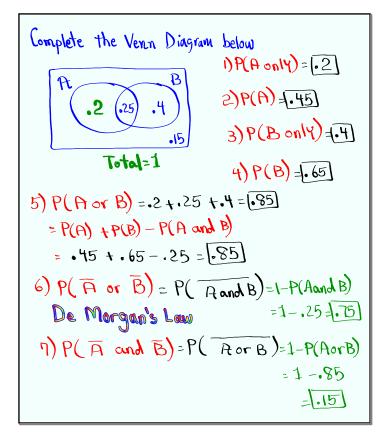
Oct 3-11:47 AM

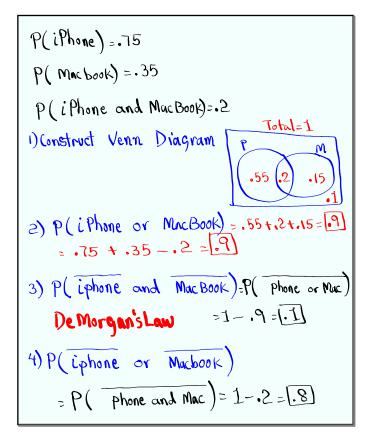


Oct 3-11:57 AM

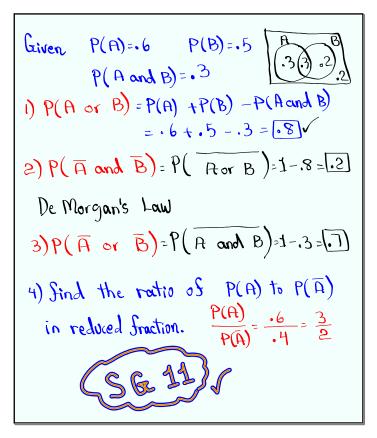


Oct 3-12:03 PM





Oct 3-12:21 PM



```
Intro. to odds

Odds in Savor of event E are

O o b

# of times

E happens

in a + b total attempts.

I flip a Coint 80 times, it landed tails

50 times.

P(tails) = \frac{50}{80} = \frac{5}{8}

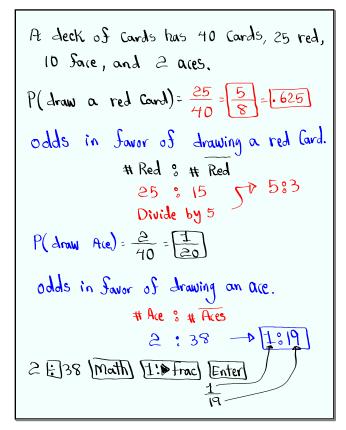
Odds in Savor of landing tails

# tails of the tails

50 or 30 - 1503

50 or 30 - 1503
```

Oct 3-12:51 PM



Oct 3-12:57 PM

Oct 3-1:03 PM

How to Sind
$$P(E) \stackrel{?}{=} P(E)$$
 when odds are given.

Odds in Savor of event E are

$$P(E) = \frac{\alpha}{\alpha + b}, P(E) \stackrel{!}{=} \frac{b}{\alpha + b}$$

Suppose odds in Savor of LA Dodgers

win the world Series is 3.7.

$$P(win) = \frac{3}{3+7} = \frac{3}{10} = .3$$

$$P(win) = \frac{3}{3+7} = \frac{7}{10} = .7$$

Odds in Savor of winning the latto is

1:999 (we wish)

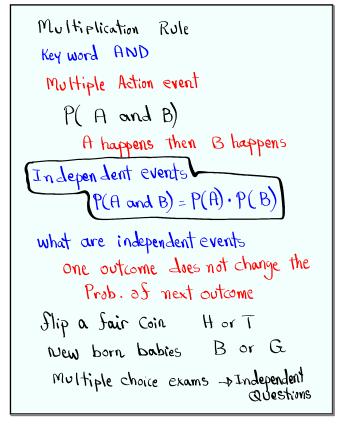
$$P(w) = \frac{1}{1+999} = \frac{1000}{1000} = .999$$

$$P(\overline{w}) = \frac{999}{1+999} = \frac{999}{1000} = .999$$

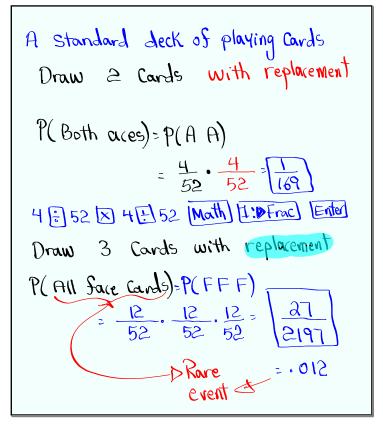
Oct 3-1:08 PM

```
How to find odds when P(E) is given.
 odds in favor of event E are
            P(E): P(E)
             Always reduce to whole #
 Prob. that Your LA Lakers win the
  championship this year is .125.
  251. = (W)9
                       P(W)=.875
     odds in Favor of Lakers to win
     it all this Year
              P(w) : P(w) ->1:7
                .125 : 875
.125 @ .875 (Math) [1: > Frac (Enter) 17
                          odds against
    $1 bet
                             7:1
    They win
                       $7 bet
    $7 Net return
                        They do not win
                        $1 net return
  +130
    Bet $100
    Not return $130
  -180
            Bet $180
            Net Return $100
```

Oct 3-1:14 PM



Oct 3-1:29 PM



Oct 3-1:33 PM

Given
$$P(A) = .6$$
, $P(B) = .5$

A and B are independent events

1) $P(\overline{A}) = 1 - .6 = .4$

2) $P(\overline{B}) = 1 - .5 = .5$

3) $P(A \text{ and } B) = P(A) \cdot P(B) = (.6)(.5) = .3$

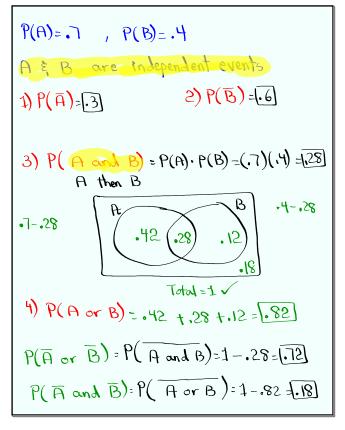
A happens, then B happens

A and B are independent events

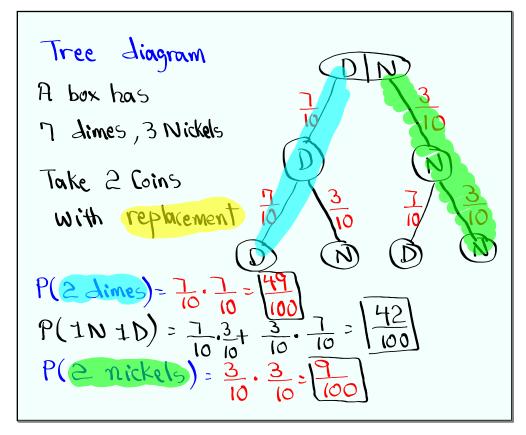
2) $P(\overline{B}) = 1 - .5 = .5$

Total = 1

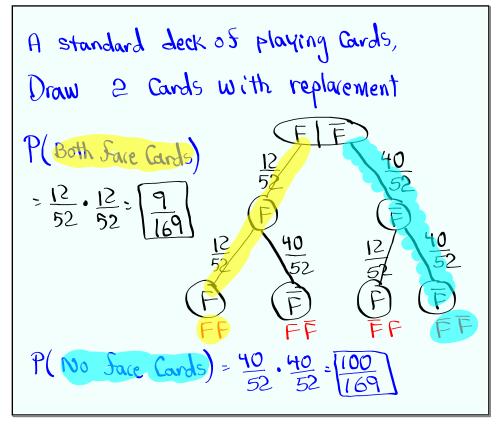
Oct 3-1:54 PM

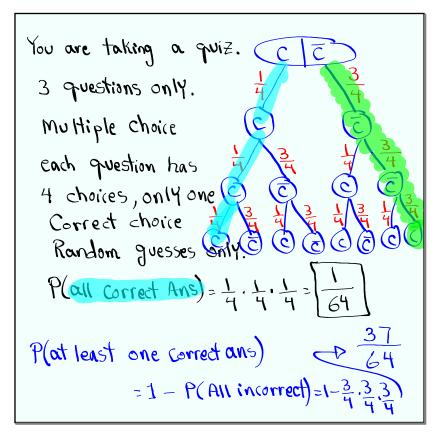


Oct 3-1:58 PM



Oct 3-2:05 PM





Oct 3-2:17 PM