```
A = 250
        Az= 250 (0.04) + 250
        Az= 250 + 250 (0.04) + 250 (0.04)
              250 (0.04) 1-1
       A = 250 (1-004) = 260,416
<u> 25</u>
         P1=0
         P'z= 250 (0.04)
          P3= 220(0.04)+520(0.04)
            Time Value of Money
  money is worth more in your pocket today.

(1) today you can invest.
(2) uncertainty in the fiture (inflation)
           In order to value money
you receive in the fitting
you need to determine its
                  present value
   Ex for 10 years you will invest
      $100 andly at a sagrated 5?
Future Value, FV is just a
               componeling exercise.
        FV= ?
               Q1=100
              Q 2 = 100 (1.05) +100
              03=100(1.05)2+100(1.05)+100
          Q_{10} = \sum_{i=0}^{10} (00(1.05) + 100(1.05) + 1
           Present Valueing (1e discountly)
15 the "inverse" of FV.
100 (195) -> lyr
        Lotto. Jackpot $50 million
        1) maney NDWI $20 million
       (2) 20 payrets of $1,020,000 over 20.
    Value option (2)
                                    let's say we con
get 7%.
         Q= 1.02
after year 1 Q2 = 1.02/1.67
          Q3= (.02 (1.07)2
Q4= 1.02 (1.07)3
          Pos = 1.62/19
                                    = 1.02 \left( \frac{1 - 0.2584}{1 - 0.3584} \right)
                                     1.02 (<del>0.74178)</del> 20.1 ≈
                                     ≈ 11.2853.
```