

MORTGAGE PAYMENTS, ETC.

KERRY BACK



QUESTIONS ABOUT LOANS

FUTURE VALUES

PRESENT VALUES

ANNUITY FACTOR

BALLOON PAYMENTS

NUMPY FINANCIAL

EXAMPLE



```
1 # Question 1: what will my payment be?
2 PMT = npf.pmt(rate=rate, nper=nper, pv=principal, fv=balloon)
3
4 # Question 2: how much can I borrow?
5 PRINCIPAL = npf.pv(rate=rate, nper=nper, pmt=pmt, fv=balloon)
6
7 # Question 3: what will my rate be?
8 RATE = npf.rate(nper=nper, pv=principal, pmt=pmt, fv=balloon)
9
10 # And, how much of a balloon do I need?
11 BALLOON = npf.fv(rate=rate, nper=nper, pmt=pmt, pv=principal)
```

If $BALLOON > 0$, you overpaid the bank and should get money back.