## Analyzing the Effect of Principal Payments

There are three important numbers connected with any home mortgage: market value, principal balance, and equity.

- Market value is the amount that the home could sell for.
- Principal balance is the amount owed on the mortgage.
- Equity is the difference between the market value and the principal balance.


Instead of taking 360 months, it takes only 330 months, which is 2.5 years sooner.

## Study Tip

Some mortgages do not allow the homeowner to make extra principal payments. Before signing a mortgage contract, make sure the contract allows you to make extra payments whenever you want.
b. Instead of your payments totaling \$539,596.80 [see Example 1(b)], your payments total $494,482.87+16,450.00=\$ 510,932.87$, which is a savings of $\$ 28,663.93$. All of this savings represents interest that you do not have to pay.

## Checkpoint

Help at Math.andYOU.com

In Example 3, suppose that each month you make the regular payment plus an additional \$100. (c) How much sooner do you pay off the mortgage?
(d) How much do you save in interest?

