

Renewing Your Mortgage

Assume you have purchased a home five years ago and your mortgage, which still has \$183,000 owing, is up for renewal.

- Determine the weekly payments for a mortgage of \$183,000 at 3% per year for the remainder of the 25 year amortization period.

$N = 20 \times 52$
 $I = 3$
 $PV = 183000$
 $PMT = ?$
 $FV = 0$
 $P/Y = 52$
 $C/Y = 2$
Payments = 233.60

- How much will you pay, all together, over the remaining 20 years assuming you do not change the conditions of your mortgage over the time period?

$$\underline{\$233.60 \times 1040 = \$242,944}$$

- Assume that you are now making more money and you want to change your payment plan to \$1600 per month.

- How long will it take you to pay back the remainder of the mortgage under these conditions?

$N = ?$
 $I = 3\%$
 $PV = -183,000$
 $PMT = -1600$
 $FV = 0$
 $P/Y = 12$
 $C/Y = 2$
 $N = 135$ months
(11.25 years)

- How much will you pay, all together, over the remainder of your mortgage?

$$1600 \times N = \$216,000$$

- How much time and money did you save by increasing your regular payments?

You will save $(20 - 11.25)$ 8.75 years and \$26,944.