What's Going On?

Checking In

Minds on This vs. That

Action! Finding the Variables and Solving

Consolidation Practice It!

Learning Goal - I will review our annuity and mortgage unit and will be able to use the TI-83s on my own!

Minds on

Fixed Rate vs. Variable Rate

What's the difference between a fixed rate and a variable rate mortgage?

You lock in your interest rate over the term in a fixed rate. In a variable rate mortgage, your interest rate fluctuates with the market.

When would you want a fixed rate mortgage vs. a variable rate mortgage?

You would want a fixed rate when interest rates are low. You would want a variable rate when interest rates are high and MAY go down over your term.

What are the disadvantages of a fixed rate mortgage and of a variable rate mortgage?

If you have a fixed rate mortgage, and the interest rate drops, you see no benefit. If you have a variable rate mortgage, and the interest rates go up, you pay more!

Minds on

Amortization Period vs. Mortgage Term

What's the difference between an amortization period and a mortgage term?

An amortization period is the period time it will take to pay off your entire mortgage.

A mortgage term is the period of time that you have agreed to certain terms (interest rate, monthly payments, etc....)

What is a typical time period for each?

Amortization Period - 20 or 25 years

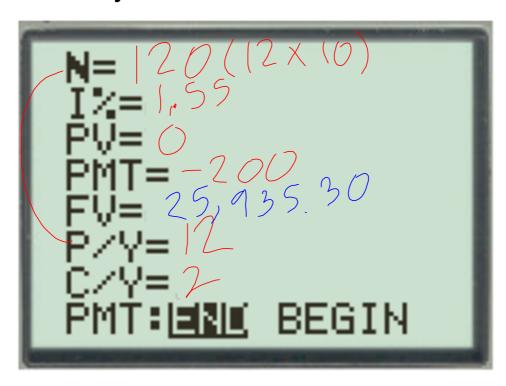
Mortgage Term - 5 years is pretty common

Action!

Finding the Variables

You are going to put away money each month to start saving for your first home.

You have decided to make monthly deposits of \$200 for the next 10 years. You have found an account that will pay 1.55% compounded semi-annually.

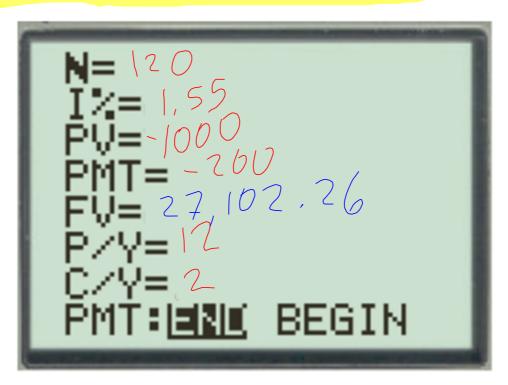


How much do you have saved after 10 years?

Finding the Variables

You are going to put away money each month to start saving for your first home.

You have decided to make monthly deposits of \$200 for the next 10 years. You have found an account that will pay 1.55% compounded semi-annually. In addition, you will put \$1,000 into the account to get things started.



How much do you have saved after 10 years?

Finding the Variables

You are one lucky guy/girl! You have come into an inheritance of \$100,000. You invest the money into an account earning 2.95% interest compounded monthly because you're super responsible.

You decide to use the account to fund your weekly adventures and allot yourself \$150 per

week.



At this rate, how long will your money last?

437.56 wels (nore than 16

Total with drawal 5-\$125,634 (50×437.56)

Finding the Variables

You are one lucky guy/girl! You have come into an inheritance of \$100,000. You invest the money into an account earning 2.95% interest compounded monthly because you're super responsible.

You want to have money available for the next 30 years of your life.



How much can you take out, each week, under these conditions?

1560×46,54 - 150,464,40

Finding the Variables

You have taken out a loan to buy your first car! The loan is for \$14,500. The current rate is 3.00% compounded monthly.

You plan to pay off the car in 5 years with monthly payments.



What are your monthly payments?

Total (65+=60 x 260,43)
-- (5,625,40)

Finding the Variables

You have taken out a loan to buy your first car! The loan is for \$14,500. The current rate is 3.00% compounded monthly.

You can only afford to pay \$100 per month.



How long before the car is ALLLL yours?

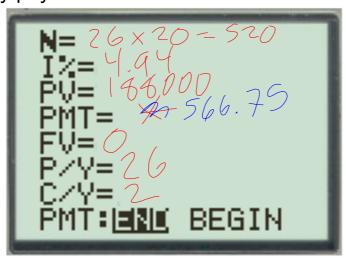
160,3 × 100 = 16030

Finding the Variables

You're all grown up and you're about to "buy" your first home.

You have settled on a home for \$235,000 and you need a 20% down payment.

You have a 4.94% APR mortgage with a 20 year amortization period, you will make biweekly payments.



What are your payments?

\$566.75/wek

How much will your home cost you by the time you own your home outright?

Total (ost = Brymen-15 to tour Phymat

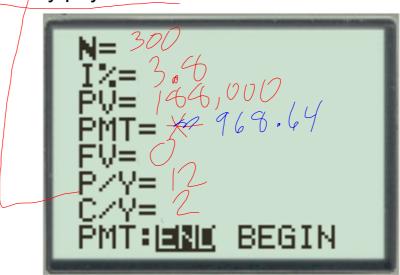
=566.75×520+47000 =566.75×520+47000

Finding the Variables

You're all grown up and you're about to "buy" your first home.

You have settled on a home for \$235,000 and you need a 20% down payment.

You have a 3.80% APR mortgage with a 25 year amortization period, you will make monthly payments.



What are your payments?

5966,64

How much will your home cost you by the time you own your home outright?

(05+=964,64×300+47000) =5337,592

Consolidation

Practice It!

Review

Pg. 438 - 439

1-12

(Be sure to check the timelines in the back of the book)