### Mortgage Costs

#### What is a mortgage?

A loan used to buy property.

\$150,000

3.5% Down & Payment

- Mortgage loans cover up to 96.5% of the cost of the property.
  - You must have at least 3.5% available for a down payment.
  - If you have less than 20% cash to put down, you will also have to pay for PMI.

150000/100×96.5

#### Private Mortgage Insurance

- Private Mortgage Insurance Protects banks in case you default on your loan.
  - This is added on TOP of your monthly loan payment.
  - If you get an FHA loan (3.5% down), you will have to pay PMI for your WHOLE LOAN.
    - Unless you refinance. \$\$\$
  - If you have a Conventional Loan (5% down), you pay PMI until you have 20% equity in the home.
    - Equity = cash you get back when you sell.

5% 20% 7500 30000

- If you know the annual interest rate, the amount of the loan, and the length of the loan, you can use a table to find the monthly payment, total amount paid, and total interest charged.
- We will be using the table on P. 799 of MBA text

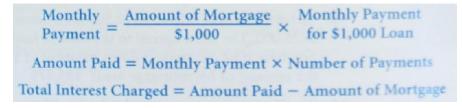
   Monthly Payment for a \$1,000 Loan\*

Interest Rate	Length of Loan in Years			
	20	25	30	
5.00%	\$6.60	\$5.85	\$5.37	
5.50%	6.88	6.14	5.68	
6.00%	7.16	6.44	6.00	
6.50%	7.46	6.75	6.32	
7.00%	7.75	7.07	6.65	
7.50%	8.06	7.39	6.99	
8.00%	8.36	7.72	7.34	
8.50%	8.68	8.05	7.69	

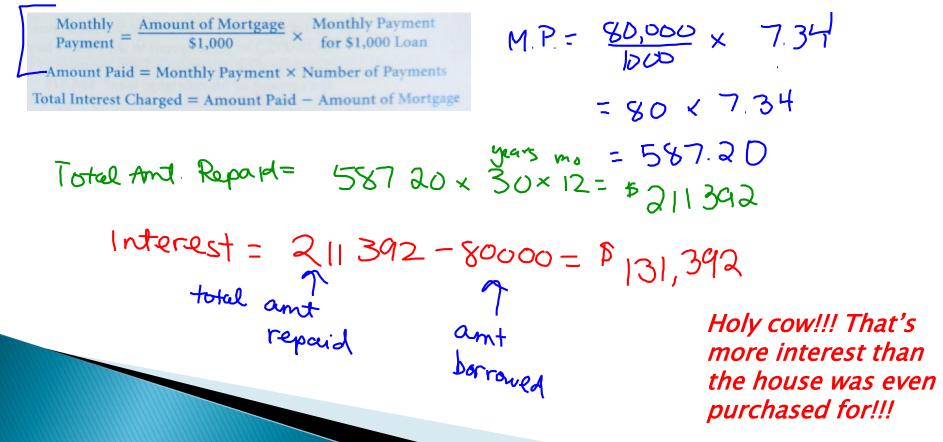
\*An expanded form can be found in the Appendix on page 799.

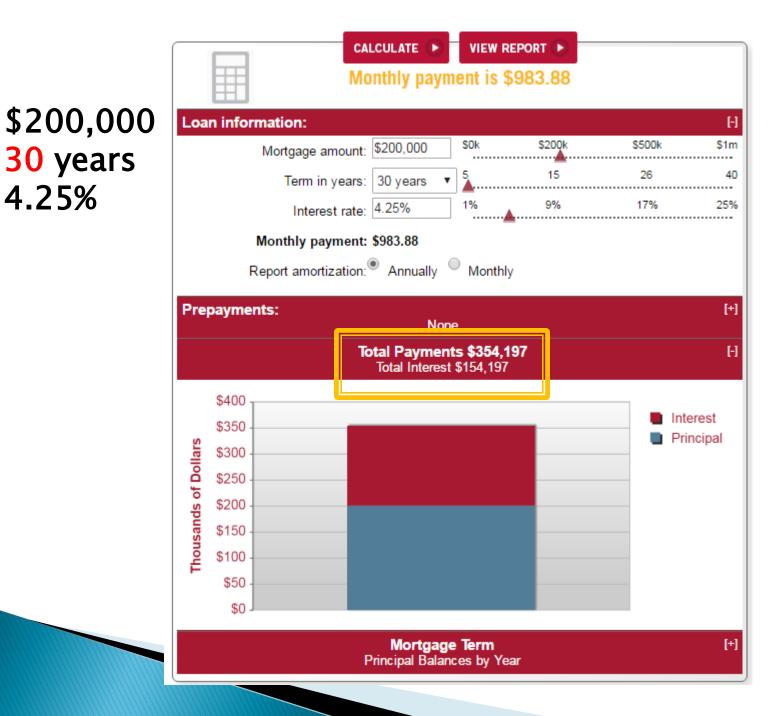
Formulae we'll be using:

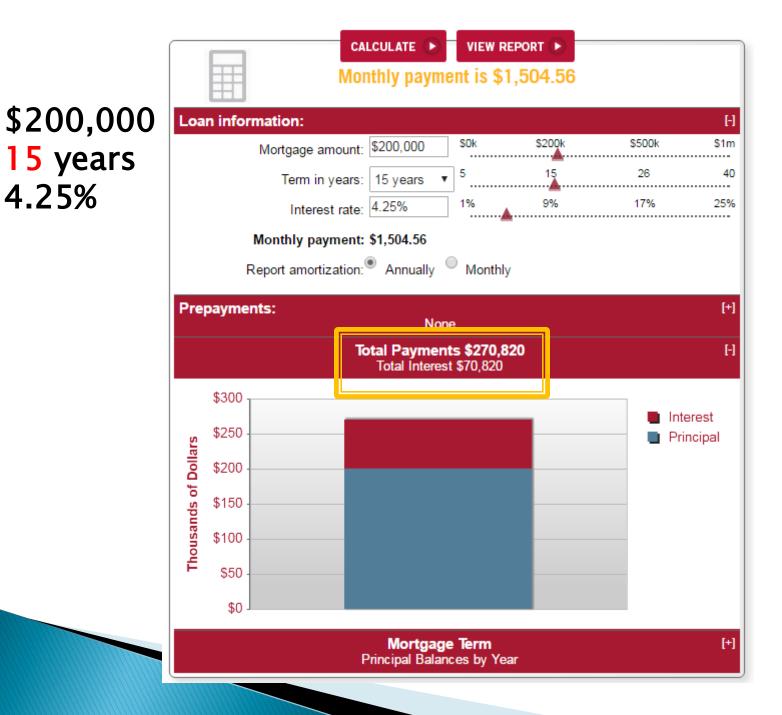
Example: Carol and Adam have applied for an \$80,000 mortgage loan at an annual interest rate of 8.00%. The loan is an installment loan of 30 years, w/ payments that include interest. What is the total amount of interest they will be charged?

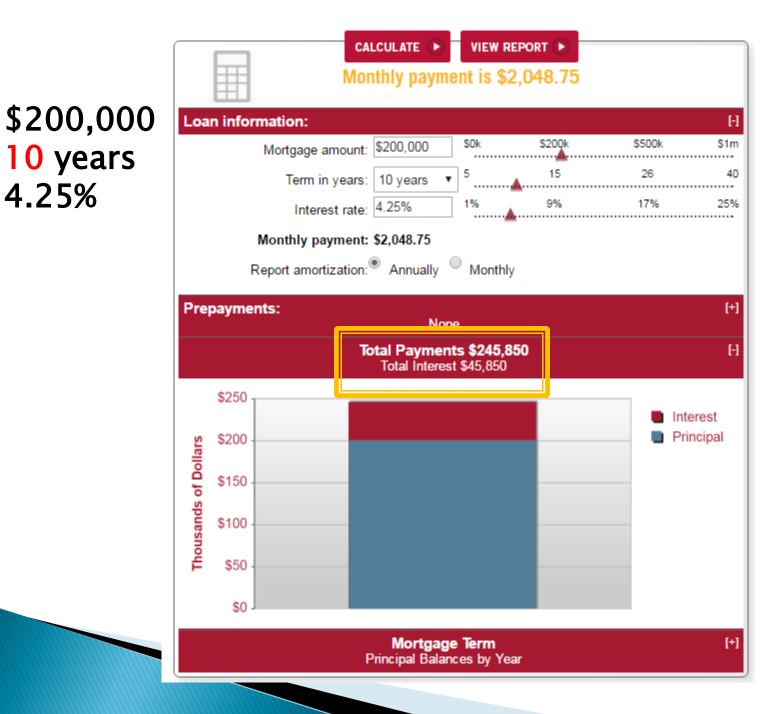


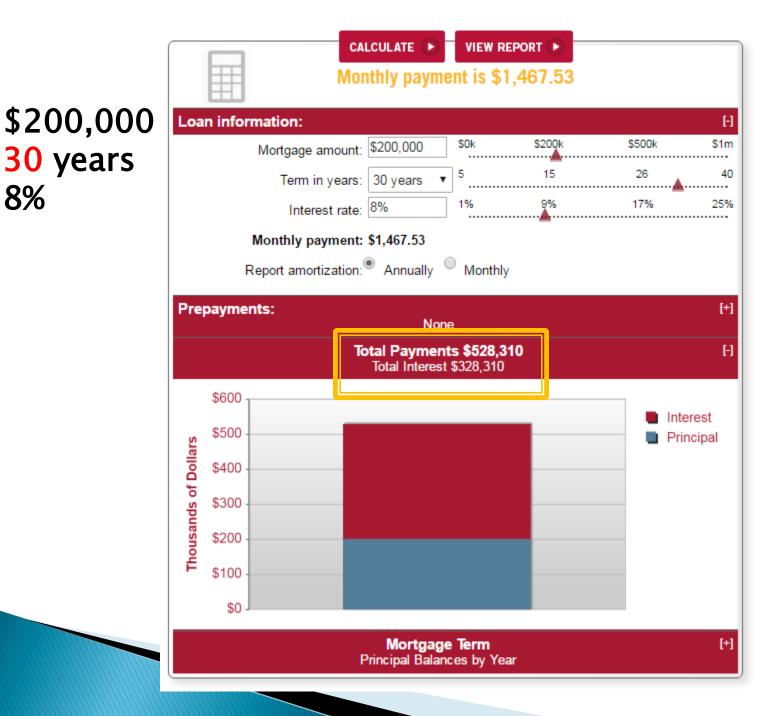
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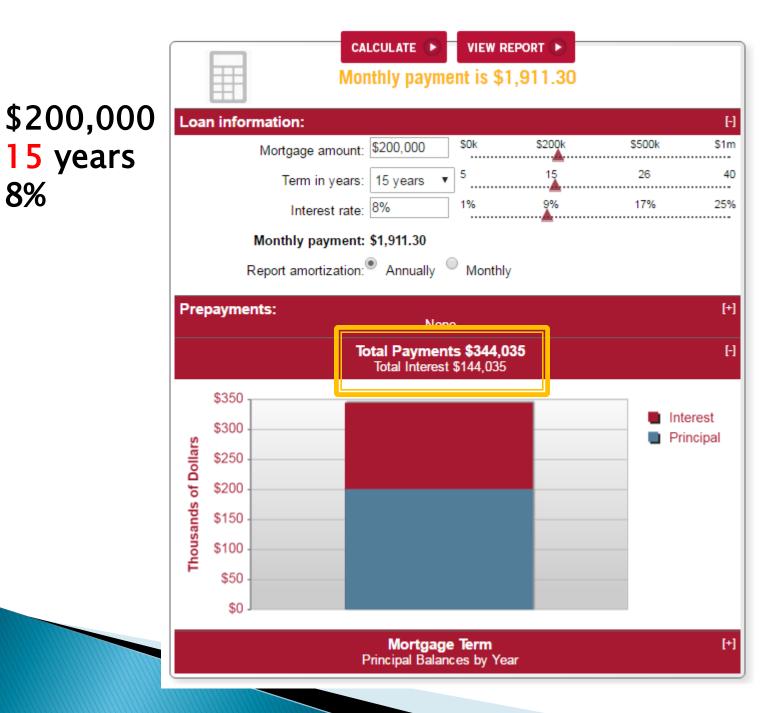




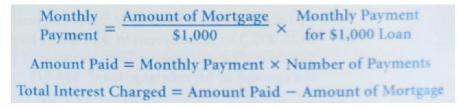








Example: Stephanie and Josh have applied for an \$120,000 mortgage loan at an annual interest rate of 5%. The loan is an installment loan of 15 years, w/ payments that include interest. What is the total amount of interest they will be charged?



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 $\frac{\text{Monthly}}{\text{Payment}} = \frac{\text{Amount of Mortgage}}{\$1,000} \times \frac{\text{Monthly Payment}}{\text{for $1,000 Loan}}$ Monthly Payment = \$949.20 Total Amount Repaid = \$170,856 Amount Paid = Monthly Payment × Number of Payments Total Interest Paid = \$50,856 Total Interest Charged = Amount Paid - Amount of Mortgage  $MP = \frac{120,000}{1000} \times 7.91 = 949.20$  months = 1000 months = 1000 months = 1000 months = 100,856  $TA.R = 949.20 \times 12 \times 15 = 170,856$ TIP= 170,856-120,000= 50,856 Total repair ant porrowed

### 10-3 Closing Costs

At the time you sign the docs transferring ownership of the home to you, the lender charges **closing costs**.

- Closing Costs = Sum of Bank Fees
  - Some lenders charge a flat fee, others charge per item.
  - These include fees for lawyers, credit checks, surveys, taxes, and the preparation of the documents.

### 10-3 Closing Costs

- Trudy and Germaine have been granted a mortgage loan with an annual interest rate of 8% for 25 years. The home's selling price is \$95,000. They need a 15% down payment and the bank will allow them to finance the closing costs as part of the mortgage.
- What will the mortgage loan amount be?  $95,000/100 \times 85 = 80,750$
- What are the total closing costs? 3180.30, +~
- What is the actual amount financed with the mortgage?

Closing Costs		\$ 83930.50	Closing Costs
Credit report	\$ 65.00		
Loan origination	2% of mortgage	80,750/100×2=7	\$1615.00
Abstract of title	120.00		> 120.00
Attorney fee	250.00		
Documentation stamp	0.3% of mortgage	50,750100x.3	250 00
Processing fee	1.10% of mortgage	80,750/100×11	242.25
			+ 468 25 \$3160.50
			42180.00

#### Assignment Part 3

- ▶ P. 348/ 7 13 all
- ▶ P. 350/4 6 all