

1. You can afford a \$1350 per month mortgage payment. You've found a 30 year loan at 8% interest.

a) How big of a loan can you afford? \$

b) How much total money will you pay the loan company? \$

c) How much of that money is interest? \$

2. You want to buy a \$18,000 car. The company is offering a 2% interest rate for 60 months (5 years). What will your monthly payments be?

\$

3. You want to buy a \$223,000 home. You plan to pay 5% as a down payment, and take out a 30 year loan for the rest.

a) How much is the loan amount going to be? \$

b) What will your monthly payments be if the interest rate is 5%? \$

c) What will your monthly payments be if the interest rate is 6%? \$

4. You have \$5,000 on a credit card that charges a 17% interest rate. If you want to pay off the credit card in 4 years, how much will you need to pay each month (assuming you don't charge anything new to the card)?

\$ each month

5. You have taken a loan of \$51,000.00 for 20 years at 3.3% compounded quarterly. Fill in the table below: (Round all answers to 2 decimal places.)

Payment number	Payment amount	Principal Amount	Interest	Balance
0)				\$51,000.00
1)	\$	\$	\$	\$
2)		\$	\$	\$
3)		\$	\$	\$

6. You are considering taking out a loan of \$6,000.00 that will be paid back monthly over 2 years at 6.8% interest as a Rule of 78 loan. What is the interest on the loan? How much of the interest is paid after 10 payments?

The total interest is \$. After 10 payments interest paid is \$

7. An executive is going to purchase a vacation property for investment purposes. She needs to borrow \$105,000.00 for 29 years at 6.3% compounded monthly, and will make monthly payments of \$657.55. (Round all answers to dollars and cents.)

What is the unpaid balance after 13 months? \$

During this time period, how much interest did she pay? \$

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Solutions

1. 183,982.72 ~ 486,000 ~ 302,017.28
2. 315.50
3. 211,850 ~ 1,137.26 ~ 1,270.15
4. 144.28
5. \$873.38 ~ \$452.63 ~ \$420.75 ~ \$50,547.37 ~ \$456.36 ~ \$417.02 ~ \$50,091.01 ~ \$460.13 ~ \$413.25 ~ \$49,630.88

	Payment number	Payment amount	Principal Amount	Interest	Balance
	0)				\$51,000.00
	1)	\$873.38	\$452.63	\$420.75	\$50,547.37
	2)		\$456.36	\$417.02	\$50,091.01
	3)		\$460.13	\$413.25	\$49,630.88
6.	\$816.00 ~ \$530.00				
7.	\$103,572.97 ~				
	Payments = $13 \times 657.55 = 8548.15$				
	Principal = $105000 - 103572.97 = 1427.03$				
	$8548.15 - 1427.03 = \$7,121.12$				

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