## Workshop #2

Due: July 15<sup>th</sup>, 2013

Name:
1. Sal needs to buy some equipment for his landscaping business so he took out a \$35,000 loan from the bank. He's being charged $6.5\%$ interest compounded <u>quarterly</u> .
(a) How long will it take Sal to pay off this loan if he makes \$5,000 quarterly payments? [Remember to round up to the next whole period.]
years and months
Record the Excel command(s) you used to find your answer:
(b) Sal's last payment won't be a full \$5,000, find the amount of his final (partial) payment.
Record the Excel command(s) you used to find your answer:
(c) Suppose that Sal pays \$2,000 per quarter for 3 years, 9 months and then makes a final "balloon" payment at the end of 4 years.
How much will this balloon payment be?
Record the Excel command(s) you used to find your answer:
2. Bob just won a big cash prize and wants to put aside some money for retirement. He can open an investment account which earns 10% compounded monthly. Bob plans to deposit a large sum in this account and then, after 20 years, he will start withdrawing \$5,000 a month for 35 years. How much money does he need to deposit in this account today?
Record the Excel command(s) you used to find your answer:
<b>3.</b> Frank wants to save up to buy a new boat. He plans to spend about \$7,000 on his boat and has a savings account which earns 2% compounded monthly. How much would he have to deposit at the <b>beginning</b> of each month (starting now) to have \$7,000 at the end of 3 years?
Record the Excel command(s) you used to find your answer:

and	d get \$3,00	•	2) Finance the ca	ar at 0% for 5 ye	ealer offers her 2 opti ears. If Jane takes opt	( )
	Record th	e Excel command	(s) you used to fin	nd your answer:		
		hs just bought a \$- erest rate (compou	•	hey put $20\%$ dow	vn and took out a 15 y	ear mortgage with
(a)	What is	their down paymer	nt?			
	What die	they borrow?				
	What is	their monthly payr	nent?			
(b)	How muc	ch interest will the	y pay during thei	r first year?		
(c)	Fill out t	he following table:				
	Month	Beg. Balance	Payment	Interest	Amt. to Principal	End Balance
	33					
	34					
(d)		ato the loan, the Snompounded month			tgage. They start a nev	w 15 year mortgage
(e)	`	the original loan.) ? What would the	- '		n, how long would it ta	ake them to pay off
		It	would take		years and	months.
			T	heir last paymen	t would be \$	